Catch and Effort Statistics of the Canadian Groundfish Fishery on the Pacific Coast in 1982

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ABSTRACT

Leaman, J. E. 1983. Catch and effort statistics of the Canadian groundfish fishery on the Pacific Coast in 1982. Can. Tech. Rep. Fish. Aquat. Sci. 1226: iv + 88 p.

Catch and effort statistics for the Canadian groundfish fishery (excluding halibut) on the Pacific Coast in 1982 are presented. Statistics are shown by major areas, minor areas, and INPFC areas, in metric tons (t). Total landings in 1982 were 34,577 t, 7% less than in 1981. The bulk (82%) of the catch was taken by trawl gear. The main species landed were Pacific ocean perch, Pacific cod, lingcod, sablefish, and hake.

Key words: catch statistics, effort statistics, groundfish, Pacific coast.

RÉSUMÉ

Leaman, J. E. 1983. Catch and effort statistics of the Canadian groundfish fishery on the Pacific Coast in 1982. Can. Tech. Rep. Fish. Aquat. Sci. 1226: iv + 88 p.

On présente des statistiques sur les prises et sur l'effort de pêche du poisson de fond (sauf le flétan) sur la côte canadienne du Pacifique en 1982. Les statistiques sont indiquées en tonnes métriques (t) pour les grandes zones, les petites zones et les zones administrées par la Commission internationale des pêcheries du Pacifique nord (CIPPN). Les débarquements ont totalisé 34 577 t en 1982, soit 7 % de moins qu'en 1981. La plus grande partie (82 %) a été capturée au chalut. Le sébaste du Pacifique, la morue du Pacifique, la morue-lingue, la morue charbonnière et le merlu ont été les principales espèces débarquées.

Mots-clés: statistiques sur les prises, statistiques sur l'effort de pêche, poisson de fond, côte du Pacifique.

INTRODUCTION

The Canadian fishery for groundfish along Canada's west coast involves many species of demersal fishes, the majority of which are caught by bottom and midwater trawls. The remaining catch is taken either by trap, longline, handline, troll, or incidentally while shrimp trawling. Excluding halibut, these groundfish landings contributed an average of 28,812 metric tons (t) to the annual fish production of Canada during 1972-81. The total landings of major groundfish species, caught by all types of gear from all areas on the Pacific coast during 1972-82, are shown in Table 1.

The Fisheries Research Branch, Pacific Biological Station, Nanaimo, B.C., maintained port liaison officers at Vancouver, Steveston and Prince Rupert during 1982. These persons conducted interviews with captains of trawl, longline and trap vessels to collect information on effort expended for groundfish catches, by species, area and depths as well as other pertinent data. The landings not covered by these interviews were obtained from the sales slips collected by the Statistical Services of Fisheries Management in Vancouver. All available 1982 data are included in this final report. While changes are rare, individuals using these data for analyses should refer to the author for confirmation.

Total 1982 landings of 34,577 t were 20% above the 1972-81 mean but declined 7% from the 1981 level. Pacific ocean perch and various rockfish species were the dominant species, accounting for one-third of the total catch. There were marked increases in landings of lingcod (4,162 t) and dogfish (2,575 t). Landings of Pacific cod (4,810 t) declined by 28%, to the lowest level since 1970.

This portion of the document is the traditional report of landings (t) by species, by discrete domestic (minor) fishing areas and by larger United States-Canadian (major) areas, commonly called Pacific Marine Fisheries Commission (PMFC) areas.

MAJOR STATISTICAL AREA DIVISIONS

Standardization between Canada and the United States in reporting of groundfish catches on the Pacific coast has resulted in assignment of catches to certain major statistical areas. In the United States these International areas are used by the Pacific Marine Fisheries Commission in their annual summaries of catch statistics. Figure 1 illustrates the major statistical areas off British Columbia and gives their numerical designation. The following is a complete description of the boundaries of these areas.

AREA 3B--NORTHWEST WASHINGTON COAST

From Latitude 47°20'N to a line bearing 220° True from the mid-point of the Bonilla-Tatoosh line and crossing said parallel of latitude. This area

Table 1. Total Canadian landings (t) of groundfish by species, taken by all gear from all areas on the Pacific coast, 1972-82.

Species	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	Mean 1972-81	1982
English sole	502	740	663	1,100	1,307	1,469	809	1,069	1,244	1,500	1,040	559
Rock sole	957	819	948	1,740	2,157	1,252	1,312	1,874	1,843	1,059	1,396	745
Petrale sole	578	474	684	442	340	289	230	202	222	290	375	367
Dover sole	1,100	830	822	1,030	1,158	700	736	861	1,273	1,245	976	914
Rex sole	163	144	137	99	133	99	102	203	145	190	142	74
Starry flounder	207	63	61	91	50	89	74	296	118	198	125	168
Turbot	130	563	370	953	1,310	1,599	2,326	1,826	1,448	946	1,147	525
Other flatfish	124	15	6	2	9	15	25	59	57	183	50	220
Pacific cod	8,665	7,487	8,828	10,272	10,107	7,717	6,750	9,554	8,703	6,708	8,479	4,810
Lingcod	2,392	2,136	2,540	2,846	2,320	2,248	2,004	2,098	2,151	2,467	2,320	4,162
Sablefish	1,103	965	503	925	795	1,088	831	2,031	3,793	3,888	1,592	3,976
Pollock	174	86	48	103	1,322	890	2,407	3,387	2,201	1,251	1,187	924
Hake	-	-	-	-	-	2	2	818	606	5,691	712	2,826[a]
Pacific ocean perch	2,327	1,398	1,529	2,040	1,745	2,716	3,864	2,819	5,290	5,103	2,883	5,983
Other rockfish	1,787	1,429	1,136	1,214	2,543	5,235	6,608	5,962	4,476	4,857	3,525	5,093
Misc. species	122	108	97	182	220	289	163	215	303	266	197	141
Dogfish	115	5,025	1,070	714	242	1,730	3,126	4,757	4,547	1,151	2,248	2,575[b]
Animal food	513	297	174	37	100	49	112	214	191	42	173	65
Reduction	71	69	274	211	299	181	302	240	528	302	248	450
Total	21,030	22,648	19,890	24,001	26,157	27,657	31,783	38,485	39,139	37,337	28,813	34,577

[a]Does not include catches from joint-venture fishery, see Table 64.

[b]Does not include an estimated 1300 t of dogfish landed at United States ports for which no data are available.

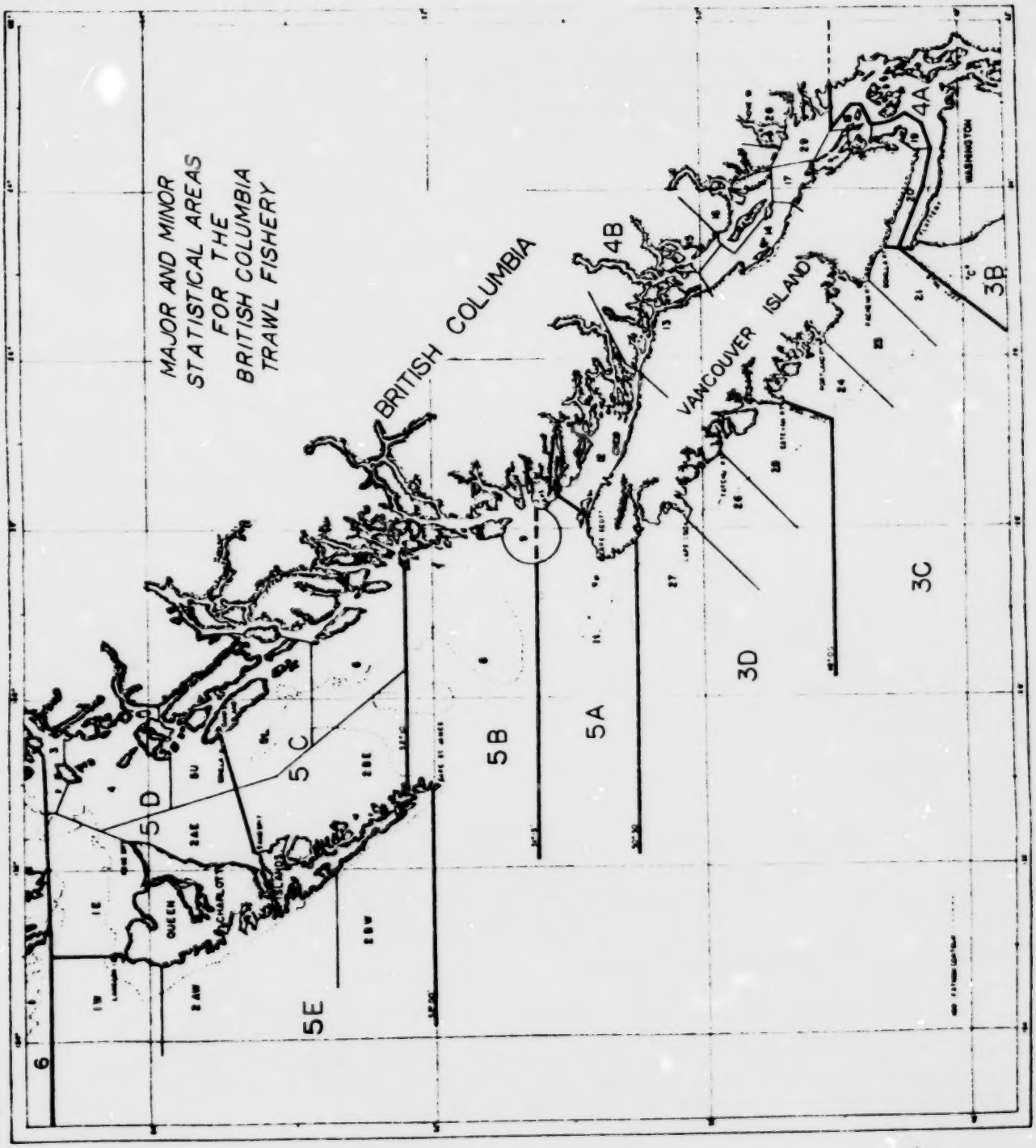
MAJOR AND MINOR
STATISTICAL AREAS
FOR THE
BRITISH COLUMBIA
TRAWL FISHERY
BRITISH COLUMBIA
VANCOUVER ISLAND
QUEEN CHARLOTTE
WASHINGTON
5E
5D
5C
5B
5A
4B
4A
3D
3C
3B
6

Fig. 1.

includes the Quillayute and Umatilla Reef grounds and the shallow waters off Cape Flattery.

AREA 3C--SOUTHWEST COAST VANCOUVER ISLAND

From the northern boundary of Area 3B to a line bearing 200° True from Estevan Point southward to the 49° parallel of latitude, thence westward along said parallel. This area includes the Cape Flattery Spit, the Swiftsure Bank, La Pérouse Bank (Big Bank or 40 mile Bank), the Cabbage Patch, the Firing Range, the Lennard Island and Sydney Inlet grounds, and the inshore waters of Barkley Sound.

AREA 3D--NORTHWEST COAST VANCOUVER ISLAND

From the northern boundary of Area 3C to Latitude 50°30'N. This area includes the Nootka, Esperanza, and Kyuquot grounds as well as the Estevan Deep.

AREA 4A--PUGET SOUND

The United States territorial waters inside the Bonilla-Tatoosh line including the Juan de Fuca Strait and Puget Sound. No Canadian catch from this area.

AREA 4B--STRAIT OF GEORGIA

The Canadian waters from the Bonilla-Tatoosh line inside to a line drawn north and south (Mag.) through Pine Island at the upper end of Queen Charlotte Strait. This area, defined simply as the Strait of Georgia, includes all Canadian inshore grounds of Juan de Fuca Strait, Johnstone and Queen Charlotte straits, and Georgia Strait.

AREA 5A--SOUTH QUEEN CHARLOTTE SOUND

From the northern boundaries of Areas 4B and 3D to Latitude 51°15'N. This area includes all grounds incorporated in the Cape Scott Bank and a portion of the grounds in the gully between the Cape Scott Bank and the Goose Island Bank. It also includes catches from the Virgin Rocks ground.

AREA 5B--NORTH QUEEN CHARLOTTE SOUND

From Latitude 51°15'N to Latitude 52°00'N on the westward side of Cape St. James and from Latitude 51°15'N to Latitude 52°10'N on the eastward side of Cape St. James. This area includes all grounds associated with the Goose Island Bank and the remaining portion of the grounds in the gully between the Goose Island Bank and the Cape Scott Bank.

AREA 5C--SOUTH HECATE STRAIT

From Latitude 52°10'N to a line drawn from Spit Point (Sandspit) on Moresby Island to the southern tip of Bonilla Island. This area includes the grounds known as the "Horseshoe" and the "Ole Spot" in the central region of the Strait.

AREA 5D--NORTH HECATE STRAIT

From the northern boundary of Area 5C to Latitude 54°40'N, limited to the westward by Longitude 133°W across Dixon Entrance. This area includes the Two Peaks ground (northeast of Rose Spit), the Butterworth-Warrior edge, the Fingers (southwest of Archibald Island), the Oval Hill ground, the White Rock ground (northwest of Bonilla Island), the Skidegate Inlet ground, the Fife Point grounds, the grounds lying 25 mi southwest of Seal Rocks, and grounds in Dixon Entrance.

AREA 5E--WEST COAST QUEEN CHARLOTTE ISLANDS

From Latitude 52°00'N to 54°40'N, limited to the eastward by Longitude 133°W across Dixon Entrance.

AREA 6--ALASKA

Encompasses waters bounded on the south by Latitude 54°40'N and on the west by Longitude 147°W.

MINOR STATISTICAL AREA DIVISIONS

Minor areas are used to give more detailed information on region of capture of groundfish. They are areas within major areas and are basically the former Fisheries Management statistical areas with some modifications. Figure 2 illustrates the areas; the modifications are catalogued below:

1. Minor Area 1 has been divided into two minor areas, 1E and 1W. This boundary lies along Longitude 133°W.

2. Minor Area 2 West has been divided into two minor areas, 2AW and 2BW. This boundary lies along 52°40'N Latitude.

3. The boundary between Area 2 East and Area 4 has been shifted northwestward to Rose Spit. This brings the whole of the "Two Peaks" grounds within Area 4.

4. Minor Area 5 has been divided into two sub-areas, designated 5U and 5L, this boundary lies along the Sandspit-Bonilla Island line, which is the internationally agreed line of division between north and south Hecate Strait (Areas 5U and 5C).

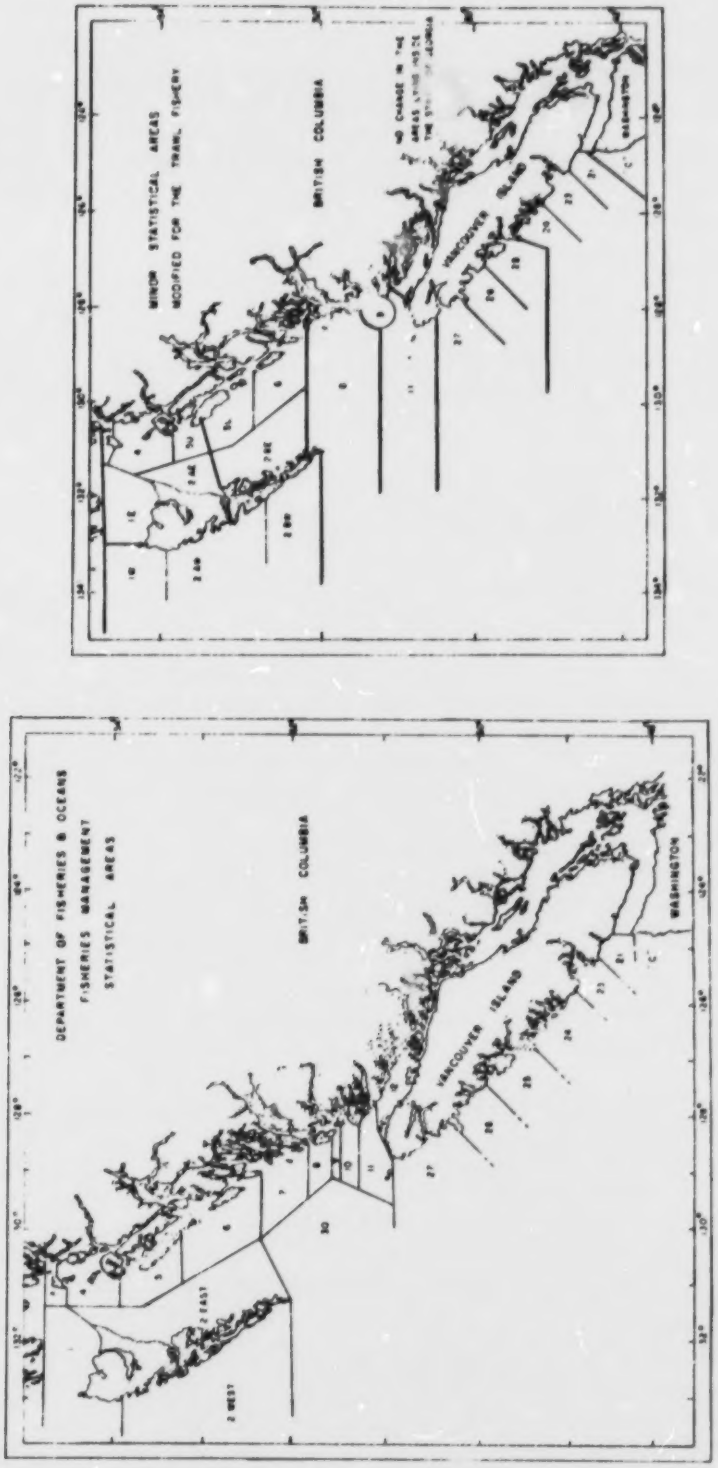
MINOR STATISTICAL AREAS
MODIFIED FOR THE TRAWL FISHERY
BRITISH COLUMBIA
VANCOUVER ISLAND
WASHINGTON
DEPARTMENT OF FISHERIES & OCEANS
FISHERIES MANAGEMENT
STATISTICAL AREAS
BRITISH COLUMBIA
VANCOUVER ISLAND
WASHINGTON

Fig. 2.

5. The boundary between Areas 5D and 5C has been continued through Area 2 East to divide it into two minor areas, 2AE and 2BE.

6. The southern boundary of Areas 2 East and 6 has been shifted to lie along 52°10'N Latitude to conform with the boundary between Areas 5C and 5B.

7. Area 8 has been expanded to include the whole of the Goose Island Bank. This has involved (a) shifting the northern boundary and eliminating Area 7, (b) shifting the southern boundary and eliminating the offshore portion of Area 9, and (c) the elimination of Area 30, previously used for offshore catches in Queen Charlotte Sound. There is, in this report, no westward limit to Area 8.

8. Area 9 has been changed and is now a circle 24 mi in diameter surrounding the Sea Otter group and the Virgin Rocks ground. It is considered to be part of Area 5A.

9. Area 11 has been expanded to include all of the Cape Scott Bank. This has meant the elimination of Area 10 and the addition of the part of Area 27 lying northward of 50°30'N Latitude. This is to conform with the boundary between Areas 5A and 3D.

10. The western limit of area 12 is now Bates passage.

11. The boundary between Areas 24 and 25 has been shifted to lie along the boundary between Areas 3D and 3C.

12. The boundary between Areas 23 and 24 has been shifted northwards to Portland Point and it lies on a bearing of 225° True. This is to bring the whole of the ground known as Firing Range (which formerly lay on the boundary between these two areas) entirely within Area 23.

All other minor areas remain the same as those defined by the Fisheries Management Statistical Chart.

The following shows the relationship between the major and the minor areas:

Major areas		Minor areas
6	Alaska	Southeastern, Yakutat[1]
5E	West Coast Queen Charlotte Islands	1W, 2AW, 2BW
5D	North Hecate Strait	1E, 2AE, 3, 4, 5U
5C	South Hecate Strait	2BE, 5L, 6
5B	North Queen Charlotte Sound	8
5A	South Queen Charlotte Sound	9, 11
3D	Northwest Coast Vancouver Island	27, 26, 25
3C	Southwest Coast Vancouver Island	24, 23, 21
3B	Northwest Washington Coast	"C"
4B	Strait of Georgia[2]	12, 13, 14, 15, 16, 17, 18, 19, 20, 28, 29

[1]Southeastern - from 54°40'N to 137°W. Yakutat from 137°W to 147°W.
[2]Including Johnstone and Queen Charlotte straits and the Canadian portion of the Strait of Juan de Fuca.

TRAWL FISHERY

In 1982, catch and effort data were collected by port liaison officers for 80%, by weight, of the total trawl landings. Through the cooperation of the Statistics Division of the Economics and Statistics Branch, the remaining 20% of the landings were recorded from sales slips, for which no effort is available. Catch-per-unit-effort (CPUE) statistics obtained from the interview data were used to estimate the effort expended for the catch reported on these sales slips.

From total landed catch and total estimated effort data, an average CPUE (t/h) was calculated for each major fishing area. Also calculated was the percentage of total catch and the total effort expended in each of these areas. These last two statistics not only serve to show relative importance of each area, but are used in the calculation of the "success ratio". This parameter is defined as the percent of total catch divided by percent of total effort.

Total landings in 1982 (excluding dumped[3] and discarded[4] fish) by the British Columbia trawl fleet were 28,243 t, 12% below the total for 1981. Effort expended decreased 10% to 34,635 h resulting in an overall CPUE of 0.815 t/h about the same as the 1981 level.

Pacific ocean perch was the strongest contributor to the trawl fishery with landings of 5,983 t. It showed a 17% increase from 1981; and accounted for more than half of the rockfish landings. Total rockfish landings were 10,628 t and comprised 38% of the total trawl landings. Trawl landings of lingcod at 2,879 t rose 66% from 1981. Hake landings of 2,826 t were less than half the amount taken during the previous year. English sole landings declined 63% to 559 t. There were also marked decreases in landings of rock sole (745 t), dover sole (914 t) and pollock (924 t). Pacific cod landings dropped 28% to 4,794 t - the lowest level since 1970. Trawl landings of dogfish (1,719 t) were more than double the catch for 1981.

Annual trawl catch and effort data are shown in Tables 2-5. Landings by major area, month and species are presented in Tables 6-13. Landings by minor area, month and species are given in Tables 14-42.

AREA 48 - STRAIT OF GEORGIA

Total landings (4,891 t) and effort (8,163 h) from this area decreased in 1982, resulting in a 7% increase in CPUE to 0.599 t/h. Hake, Pacific cod, and dogfish were the main species caught.

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[3]Fish caught and retained but eventually rejected at the plant as being unsuitable for any utilization.

[4]Fish caught and discarded at sea by fishermen.

AREA 3C - SOUTHWEST COAST OF VANCOUVER ISLAND

Landings decreased 18% to 5,195 t due to the absence of domestic hake landings from this area. The amount of effort expended increased to 7,269 h effecting a 31% decline in CPUE to 0.715 t/h. Lingcod landings of 1,510 t were more than twice the amount taken during the previous year. Pacific cod and dogfish were the other major species taken from this area.

AREA 3D - NORTHWEST COAST OF VANCOUVER ISLAND

There was a 33% decrease in the amount of effort (770 h) expended in this area but a 17% increase in landings (721 t). This resulted in an overall 75% increase of CPUE to 0.937 t/h. Rockfish landings of 517 t, of which canary rockfish (215 t), silvergray rockfish (126 t) and Pacific ocean perch (113 t) were the dominant species, accounted for 72% of the total.

AREA 5A - SOUTH QUEEN CHARLOTTE SOUND

Both total effort (3,492 h) and total catch (2,220 t) increased substantially, accompanying a 21% rise in CPUE to 0.636 t/h. There was a large increase in lingcod landings to 467 t. Silvergray rockfish and Pacific cod were the other main species caught.

AREA 5B - NORTH QUEEN CHARLOTTE SOUND

This area contributed 20% (5,530 t) of the total British Columbia trawl production; CPUE rose 5% above the 1981 level to 1.034 t/h. The major species taken in this area were Pacific ocean perch, lingcod, yellowmouth rockfish, Pacific cod and silvergray rockfish.

AREA 5C - SOUTH HECATE STRAIT

Total landings (2,959 t) and effort (2,887 h) showed decreases, 28% and 36% respectively, from the previous year, resulting in an 11% increase of CPUE (1.025 t). There were substantial decreases in landings of Pacific cod and various flatfish and rockfish species. Pacific ocean perch and Pacific cod were the main species landed.

AREA 5D - NORTH HECATE STRAIT

Both total catch (4,518 t) and total effort (5,980 h) decreased 33% from 1981, resulting in the same level of CPUE (0.756 t/h). This was due to the decline in landings of English sole, Pacific cod, and Dover sole. Pollock was the other main species landed from this area.

AREA 5E - WEST COAST QUEEN CHARLOTTE ISLANDS

Total landings (2,209 t), effort (727 h), and CPUE (3.039 t/h) all decreased slightly from the previous year. Total rockfish landings of 2,048 t accounted for 93% of the total catch of which Pacific ocean perch (967 t), yellowmouth rockfish (455 t), and rougheye rockfish (343 t) were the dominant species.

The following species were observed in trawl landings in British Columbia in 1982.

Family and common name	Scientific name
Fishes	
Acipenseridae	
Green sturgeon	Acipenser medirostris (Ayres)
Anarhichadidae	
Wolf-eel	Anarrhichthys ocellatus (Ayres)
Anoplopomatidae	
Sablefish	Anoplopoma fimbria (Pallas)
Clupeidae	
American shad	Alosa sapidissima (Wilson)
Pacific herring	Clupea harengus pallasi (Valenciennes)
Embiotocidae	
Pile perch	Rhacochilus vacca (Girard)
Gadidae	
Pacific cod, true cod or gray cod	Gadus macrocephalus (Tilesius)
Pacific hake	Merluccius productus (Ayres)
Walleye pollock	Theragra chalcogramma (Pallas)
Hexagrammidae	
Lingcod	Ophiodon elongatus (Girard)
Osmeridae	
Eulachon	Thaleichthys pacificus (Richardson)

Family and common name	Scientific name
Pleuronectidae	
Arrowtooth flounder or turbot	*Atheresthes stomias* (Jordan and Gilbert)
Petrale sole	*Eopsetta jordani* (Lockington)
Rex sole	*Glyptocephalus zachirus* (Lockington)
Flathead sole	*Hippoglossoides elassodon* (Jordan, Gilbert)
Butter sole	*Isopsetta isolepis* (Lockington)
Rock sole	*Lepidopsetta bilineata* (Ayres)
Slender sole	*Lyopsetta exilis* (Jordan and Gilbert)
Dover sole	*Microstomus pacificus* (Lockington)
English sole	*Parophrys vetulus* (Girard)
Starry flounder	*Platichthys stellatus* (Pallas)
Curlfin sole	*Pleuronichthys decurrens* (Jordan, Gilbert)
Sand sole	*Psettichthys melanostictus* (Girard)
Rajidae	
Big skate	*Raja binoculata* (Girard)
Longnose skate	*Raja rhina* (Jordan and Gilbert)
Scorpaenidae	
Rougheye rockfish	*Sebastes aleutianus* (Jordan, Evermann)
Pacific ocean perch	*Sebastes alutus* (Gilbert)
Redbanded rockfish	*Sebastes babcocki* (Thompson)
Shortraker rockfish	*Sebastes borealis* (Barsukov)
Silvergray rockfish	*Sebastes brevispinis* (Bean)
Copper rockfish	*Sebastes caurinus* (Richardson)
Darkblotched rockfish	*Sebastes crameri* (Jordan)
Splitnose rockfish	*Sebastes diploproa* (Gilbert)
Greenstriped rockfish	*Sebastes elongatus* (Ayres)
Widow rockfish	*Sebastes entomelas* (Jordan and Gilbert)
Yellowtail rockfish	*Sebastes flavidus* (Ayres)
Rosethorn rockfish	*Sebastes helvomaculatus* (Ayres)
Quillback rockfish	*Sebastes maliger* (Jordan and Gilbert)
China rockfish	*Sebastes nebulosus* (Ayres)
Bocaccio	*Sebastes paucispinis* (Ayres)
Canary rockfish	*Sebastes pinniger* (Gill)
Redstripe rockfish	*Sebastes proriger* (Jordan and Gilbert)
Yellowmouth rockfish	*Sebastes reedi* (Westrheim and Tsuyki)
Yelloweye rockfish	*Sebastes ruberrimus* (Cramer)
Harlequin rockfish	*Sebastes variegatus* (Quast)
Sharpchin rockfish	*Sebastes zacentrus* (Gilbert)
Shortspine thornyhead	*Sebastolobus alascanus* (Bean)
Squalidae	
Spiny dogfish	*Squalus acantnias* (Linnaeus)
INVERTEBRATES	
Cancridae	
Dungeness crab	*Cancer magister* (Dana)
Rock crab	*Cancer productus*

Family and common name	Scientific name
Lithodidae Box crab	Unknown species
Majidae Tanner crab	Chionoecetes bairdi (Rathbun)
Octopoda Octopus or devilfish	Octopus sp.
Pectinidae Giant Pacific scallop	Pecten caurinus (Gould)
Teuthoidea Squid	Loligo opalescens (Berry)

Table 2. Total catch (t) (excludes dumped and discarded fish) and related effort (n) for the British Columbia trawl fleet in 1982.

	Major Area							
	4B		3C		3D		5A	
Month	Catch	Effort	Catch	Effort	Catch	Effort	Catch	Effort
January	519.87	1,185	67.59	105	4.77	18	-	-
February	335.72	793	677.12	913	57.20	88	40.76	62
March	246.00	842	365.46	348	27.61	24	15.04	24
April	766.14	594	591.51	529	118.05	93	278.06	484
May	969.09	780	603.07	938	104.03	177	194.19	520
June	529.63	565	688.92	969	47.54	84	604.00	874
July	182.84	655	722.60	1,096	6.79	9	270.92	420
August	137.33	501	493.93	616	33.21	64	156.82	194
September	298.97	620	486.26	1,114	83.74	48	311.67	439
October	249.96	322	192.31	332	28.07	27	59.57	94
November	466.94	784	261.44	263	155.34	97	124.78	167
December	188.92	522	44.34	46	54.92	41	163.87	214
Total	4,891.41	8,163	5,194.55	7,269	721.27	770	2,219.68	3,492
CPUE (t/h)	0.599		0.715		0.937		0.636	
% catch	17.32		18.39		2.55		7.86	
% effort	23.57		20.99		2.22		10.08	
Success ratio	0.73		0.88		1.15		0.78	

Table 2 (cont'd)

	Major Area									
	5B		5C		5D		5E		Total	
Month	Catch	Effort	Catch	Effort	Catch	Effort	Catch	Effort	Catch	Effort
January	74.16	43	43.05	84	203.16	319	116.23	42	1,028.83	1,796
February	371.92	233	146.21	280	369.83	836	334.17	101	2,332.93	3,306
March	202.62	172	63.04	87	35.44	55	292.67	76	1,247.88	1,628
April	307.29	346	97.24	145	194.80	454	395.68	138	2,748.77	2,783
May	686.69	776	402.02	274	429.98	738	324.23	84	3,713.30	4,287
June	1,806.58	2,128	951.57	753	448.07	688	222.48	56	5,298.79	6,117
July	549.06	438	585.63	587	459.46	477	26.08	13	2,803.38	3,695
August	595.42	337	73.67	86	632.44	525	-	-	2,122.82	2,323
September	364.02	376	213.72	250	396.62	457	86.11	59	2,241.11	3,363
October	359.25	308	348.08	270	310.48	285	50.90	42	1,598.62	1,680
November	211.77	187	34.28	62	900.85	899	217.09	91	2,372.49	2,550
December	0.86	3	-	9	137.26	247	143.55	25	733.72	1,107
Total	5,529.64	5,347	2,958.51	2,887	4,518.39	5,980	2,209.19	727	28,242.64	34,635
CPUE (t/h)	1.034		1.025		0.756		3.039		0.815	
% catch	19.58		10.48		16.00		7.82			
% effort	15.44		8.33		17.27		2.10			
Success ratio	1.27		1.26		0.93		3.72			

Table 3. Total British Columbia trawl landings (t) by main species and major area in 1982 (excluding dumped and discarded fish).

Species	Major Area								
	4B	3C[a]	3D	5A	5B	5C	5D	5E	Total[a]
English sole	46.15	59.25	4.39	11.93	10.15	26.53	400.68	0.07	559.15
Rock sole	15.56	78.33	14.69	189.36	155.06	69.52	222.44	0.03	744.99
Petrale sole	4.81	232.28	29.84	40.39	20.25	7.53	8.89	22.51	366.50
Dover sole	163.81	163.99	23.96	18.19	32.30	5.14	479.80	26.91	914.10
Rex sole	0.42	-	-	0.01	0.17	3.03	68.95	1.32	73.90
Starry flounder	9.79	15.20	-	-	-	0.07	142.50	-	167.56
Turbot	16.85	75.58	-	136.65	144.87	11.54	139.41	0.27	525.17
Other flatfish[b]	127.56	69.08	10.52	7.91	1.42	0.82	2.35	-	219.66
Pacific cod	1,011.06	1,086.06	36.82	257.74	336.52	505.13	1,559.55	1.30	4,794.18
Lingcod	79.61	1,509.79	48.56	467.28	579.88	95.92	95.63	1.87	2,878.54
Sablefish	5.54	145.90	7.33	2.60	7.82	9.08	42.49	27.04	247.80
Pollock	100.10	9.50	0.03	1.13	6.25	3.20	803.55	0.45	924.21
Hake	2,823.82	1.54	-	-	-	0.43	-	-	2,825.79
Pacific ocean perch	5.90	395.25	112.87	78.40	2,702.47	1,703.63	17.54	967.27	5,983.33
Other rockfish[b]	42.77	344.11	403.99	947.03	1,280.54	406.68	138.97	1,080.46	4,644.55
Misc. species[b]	17.29	14.27	1.54	13.79	12.49	12.45	67.35	0.05	139.23
Dogfish	417.40	946.79	23.25	13.63	44.65	0.47	272.47	-	1,718.66
Animal food[b]	-	-	-	-	26.21	9.99	25.82	3.44	65.46
Reduction[b]	2.97	47.63	3.48	33.64	168.59	87.35	30.00	76.20	449.86
Total	4,891.41	5,194.55	721.27	2,219.68	5,529.64	2,958.51	4,518.39	2,209.19	28,242.64
Effort (h)	8,163	7,269	770	3,492	5,347	2,887	5,980	727	34,635

[a]Does not include catches from joint-venture fishery, see Table 64.
[b]Refer to Table 4 for breakdown by species.

Table 4. Species landed (t) as "other flatfish", "other rockfish", "miscellaneous species", "animal food", and "reduction" by major area in 1982.

Species	Major Area								Total
	4B	3C	3D	5A	5B	5C	5D	5E	
Other flatfish									
Butter sole	-	-	-	-	-	-	0.47	-	0.47
Sand sole	0.73	-	-	-	-	-	0.01	-	0.74
Unspecified	126.83	69.08	10.52	7.91	1.42	0.82	1.87	-	218.45
Total	127.56	69.08	10.52	7.91	1.42	0.82	2.35	-	219.66
Other rockfish									
Bocaccio	-	1.56	9.78	24.40	33.90	1.39	7.68	0.52	79.23
Canary rockfish	0.52	101.40	214.97	158.62	200.76	56.34	2.57	2.20	737.38
China rockfish	-	-	-	-	-	-	0.06	-	0.06
Copper rockfish	-	0.99	-	-	-	-	-	-	0.99
Darkblotched rockfish	-	5.78	1.39	-	-	0.38	-	10.16	17.71
Greenstriped rockfish	0.24	-	-	0.41	-	-	-	-	0.65
Harlequin rockfish	-	-	-	-	-	-	-	3.26	3.26
Quillback rockfish	0.04	[illegible]31	-	2.43	0.09	0.15	1.20	-	5.22
Redbanded rockfish	0.92	[illegible]1.96	3.45	9.49	40.46	11.35	21.14	6.67	105.44
Redstripe rockfish	-	2.53	-	2.19	14.86	7.76	0.92	39.98	68.24
Rosethorn rockfish	-	0.20	0.10	-	-	-	-	0.49	0.79
Rougheye rockfish	-	1.36	3.20	0.02	19.91	17.93	-	343.01	385.43
Sharpchin rockfish	-	1.89	0.29	-	9.11	1.46	0.92	9.24	22.91
Shortraker rockfish	-	1.63	1.42	0.05	24.39	8.64	0.03	3.97	40.13
Shortspine thornyhead	-	0.13	0.05	-	0.87	0.54	7.73	4.36	13.68
Silvergray rockfish	0.08	2.85	125.62	425.47	330.59	92.32	28.62	54.15	1,059.70
Splitnose rockfish	-	14.82	3.69	0.41	0.40	0.73	-	14.62	34.67
Widow rockfish	-	-	1.88	0.47	6.26	1.09	3.34	50.75	63.79
Yellowmouth rockfish	0.77	6.33	0.56	179.40	346.58	168.67	-	455.03	1,157.34
Yellowtail rockfish	7.22	114.80	12.57	83.58	215.22	7.76	54.50	-	495.65
Unspecified	32.98	74.57	25.02	60.09	37.14	30.17	10.26	82.05	352.28
Total	42.77	344.11	403.99	947.03	1,280.54	406.68	138.97	1,080.46	4,644.55

Table 4 (cont'd)

Species	Major Area								Total
	4B	3C	3D	5A	5B	5C	5D	5E	
Miscellaneous species									
American shad	0.03	-	-	-	-	-	-	-	0.03
Octopus	0.95	0.33	0.05	0.33	0.07	0.53	2.12	-	4.38
Perch	2.08	-	-	-	-	-	0.13	-	2.21
Skate	13.41	12.69	0.82	12.66	12.27	11.92	65.09	-	128.86
Squid	0.06	-	-	-	-	-	-	0.05	0.11
Sturgeon	0.76	1.25	0.67	0.80	0.15	-	0.01	-	3.64
Total	17.29	14.27	1.54	13.79	12.49	12.45	67.35	0.05	139.23
Animal food									
English sole	-	-	-	-	-	-	0.18	-	0.18
Pollock	-	-	-	-	-	-	4.79	-	4.79
Rock sole	-	-	-	-	0.11	-	-	-	0.11
Unspecified	-	-	-	-	26.10	9.99	20.85	3.44	60.38
Total	-	-	-	-	26.21	9.99	25.82	3.44	65.46
Reduction									
Dogfish	2.29	-	-	-	-	-	-	-	2.29
Dover sole	-	11.78	-	-	-	-	-	-	11.78
Pacific ocean perch	-	-	-	7.67	-	1.81	-	0.45	9.93
Ratfish	-	-	-	-	-	-	26.38	-	26.38
Rockfish	-	-	-	16.75	63.40	48.97	-	63.91	193.03
Rock sole	-	-	-	-	-	-	1.65	-	1.65
Unspecified	0.68	35.85	3.48	9.22	105.19	36.57	1.97	11.84	204.80
Total	2.97	47.63	3.48	33.64	168.59	87.35	30.00	76.20	449.86

Table 5. British Columbia trawl landings (t) by species and minor area in 1982.

Species	Minor Area				
	1W	2AW	2BW	1E	2AE
English sole	0.06	0.01	-	6.51	0.11
Rock sole	-	0.03	-	23.17	0.04
Petrale sole	8.73	13.78	-	0.61	-
Dover sole	17.50	9.26	0.15	9.24	-
Rex sole	0.93	0.39	-	4.53	-
Butter sole	-	-	-	-	-
Sand sole	-	-	-	-	-
Turbot	0.25	0.02	-	14.16	-
Starry flounder	-	-	-	105.20	-
Other flatfish	-	-	-	-	1.88
Pacific cod	1.16	0.14	-	23.81	6.73
Lingcod	1.47	0.31	0.09	1.50	0.53
Sablefish	22.95	3.81	0.28	2.94	-
Pollock	0.25	0.20	-	669.44	-
Pacific ocean perch	353.62	322.65	291.00	16.90	-
Bocaccio	-	0.52	-	1.08	-
Canary rockfish	-	2.20	-	0.02	-
Redstripe rockfish	6.44	33.52	0.02	0.92	-
Rougheye rockfish	69.08	271.67	2.26	-	-
Silvergray rockfish	29.54	23.55	1.06	8.88	-
Yellowmouth rockfish	84.07	344.12	26.86	-	-
Yellowtail rockfish	-	-	-	20.92	-
Widow rockfish	46.00	4.75	-	3.34	-
Other rockfish	110.14	20.87	3.79	13.82	0.28
Hake	-	-	-	-	-
Octopus	-	-	-	0.07	-
Perch	-	-	-	-	0.13
Skate	-	-	-	1.01	0.24
Squid	0.05	-	-	-	-
Sturgeon	-	-	-	-	-
Misc. species	-	-	-	-	-
Dogfish	-	-	-	0.25	237.10
Reduction	13.68	61.39	1.13	-	-
Animal food	0.43	1.77	1.24	7.54	0.01
Total	766.35	1,114.96	327.88	935.86	247.05
Crab	-	-	-	-	-
Dumped fish	-	-	-	-	-
Discards	20.41	9.97	0.68	100.75	-

Table 5 (cont'd)

Species	Minor Area				
	4	5up	28E	5 low	6
English sole	298.62	95.44	20.48	6.05	-
Rock sole	144.68	54.55	69.27	0.25	-
Petrale sole	2.49	5.79	7.08	0.45	-
Dover sole	396.22	74.34	3.44	1.24	0.46
Rex sole	59.32	5.10	1.70	0.10	1.23
Butter sole	0.46	-	-	-	-
Sand sole	0.01	-	-	-	-
Turbot	102.18	23.07	10.98	0.48	0.08
Starry flounder	36.01	1.29	0.07	-	-
Other flatfish	-	-	0.82	-	-
Pacific cod	1,033.04	495.97	500.98	4.15	-
Lingcod	76.21	17.39	91.02	4.74	0.16
Sablefish	7.34	32.21	1.00	8.08	-
Pollock	132.32	1.79	1.05	2.15	-
Pacific ocean perch	0.53	0.11	1,635.58	66.65	1.40
Bocaccio	1.29	5.31	0.99	0.40	-
Canary rockfish	1.00	1.55	48.59	5.22	2.53
Redstripe rockfish	-	-	7.66	0.10	-
Rougheye rockfish	-	-	17.93	-	-
Silvergray rockfish	4.76	14.98	89.32	2.85	0.16
Yellowmouth rockfish	-	-	163.13	5.56	-
Yellowtail rockfish	33.29	0.29	5.19	2.57	-
Widow rockfish	-	-	1.09	-	-
Other rockfish	24.65	2.59	50.68	2.71	-
Hake	-	-	-	0.43	-
Octopus	1.06	0.99	0.53	-	-
Perch	-	-	-	-	-
Skate	48.15	15.69	11.86	0.06	-
Squid	-	-	-	-	-
Sturgeon	-	0.01	-	-	-
Misc. species	-	-	-	-	-
Dogfish	18.05	17.07	0.47	-	-
Reduction	26.39	3.61	87.35	-	-
Animal food	15.24	3.03	9.99	-	-
Total	2,463.31	872.17	2,838.25	114.24	6.02
Crab	-	-	-	-	-
Dumped fish	26.86	-	1.82	-	-
Discards	1,031.74	507.93	132.32	14.10	5.49

Table 5 (cont'd)

Species	Minor Area				
	8	9	11	25	26
English sole	10.15	-	11.93	3.39	-
Rock sole	155.06	0.09	189.27	7.66	0.92
Petrale sole	20.25	0.15	40.24	27.72	-
Dover sole	32.30	0.51	17.68	16.25	0.04
Rex sole	0.17	-	0.01	-	-
Butter sole	-	-	-	-	-
Sand sole	-	-	-	-	-
Turbot	144.87	-	136.65	-	-
Starry flounder	-	-	-	-	-
Other flatfish	1.42	-	7.91	-	-
Pacific cod	336.52	-	257.74	10.15	-
Lingcod	579.88	-	467.28	27.71	0.58
Sablefish	7.82	-	2.60	3.74	-
Pollock	6.25	-	1.13	0.03	-
Pacific ocean perch	2,702.47	0.19	78.21	112.74	-
Bocaccio	33.90	-	24.40	0.10	-
Canary rockfish	200.76	-	158.62	1.48	-
Redstripe rockfish	14.86	-	2.19	-	-
Rougheye rockfish	19.91	-	0.02	3.20	-
Silvergray rockfish	330.59	-	425.46	5.35	-
Yellowmouth rockfish	346.58	-	179.40	0.56	-
Yellowtail rockfish	215.22	-	83.57	1.88	-
Widow rockfish	6.26	-	0.47	-	-
Other rockfish	112.46	-	72.90	34.43	-
Hake	-	-	-	-	-
Octopus	0.07	-	0.33	-	-
Perch	-	-	-	-	-
Skate	12.27	-	12.66	-	-
Squid	-	-	-	-	-
Sturgeon	0.15	-	0.80	0.01	0.17
Misc. species	-	-	-	-	-
Dogfish	44.65	-	13.63	1.94	1.28
Reduction	168.59	-	33.64	3.48	-
Animal food	26.21	-	-	-	-
Total	5,529.64	0.94	2,218.74	261.82	2.99
Crab	-	-	-	-	-
Dumped fish	6.35	-	19.21	-	-
Discards	438.43	-	191.12	3.18	6.35

Table 5 (cont'd)

Species	Minor Area				
	27	21	23	24	12
English sole	1.00	18.32	33.11	7.82	0.87
Rock sole	6.11	9.26	51.99	17.08	0.82
Petrale sole	2.12	24.96	117.96	89.36	-
Dover sole	7.67	7.10	111.77	45.12	-
Rex sole	-	-	-	-	-
Butter sole	-	-	-	-	-
Sand sole	-	-	-	-	0.31
Turbot	-	37.56	30.02	8.00	-
Starry flounder	-	0.39	4.14	10.67	3.10
Other flatfish	10.52	10.31	46.23	12.54	1.28
Pacific cod	26.67	218.92	809.43	57.71	3.35
Lingcod	20.27	52.11	1,244.49	213.19	-
Sablefish	3.59	36.83	103.76	5.31	-
Pollock	-	3.81	5.69	-	-
Pacific ocean perch	0.13	-	207.10	188.15	-
Bocaccio	9.68	-	0.84	0.72	-
Canary rockfish	213.49	3.51	7.41	90.49	-
Redstripe rockfish	-	-	0.10	2.44	-
Rougheye rockfish	-	-	0.87	0.49	-
Silvergray rockfish	120.27	0.19	1.26	1.40	-
Yellowmouth rockfish	-	-	4.22	2.12	-
Yellowtail rockfish	10.69	2.36	105.24	7.18	-
Widow rockfish	1.88	-	-	-	-
Other rockfish	0.98	4.69	29.14	79.44	-
Hake	-	-	1.36	0.18	-
Octopus	0.05	0.02	0.26	0.05	-
Perch	-	-	-	-	-
Skate	0.82	1.24	9.77	1.68	0.37
Squid	-	-	-	-	-
Sturgeon	0.49	0.13	0.79	0.33	-
Misc. species	-	-	-	-	-
Dogfish	20.03	29.54	868.09	49.16	-
Reduction	-	-	25.13	22.50	-
Animal food	-	-	-	-	-
Total	456.46	461.25	3,820.17	913.13	10.10
Crab	-	0.04	-	-	-
Dumped fish	-	-	-	-	-
Discards	110.86	304.09	519.90	116.48	-

Table 5 (cont'd)

Species	Minor Area				
	13	14	15	16	17
English sole	0.18	5.78	-	-	1.74
Rock sole	0.43	5.19	-	-	0.07
Petrale sole	-	0.10	-	-	-
Dover sole	-	-	-	-	-
Rex sole	-	-	-	-	-
Butter sole	-	-	-	-	-
Sand sole	0.42	-	-	-	-
Turbot	-	-	-	-	-
Starry flounder	1.64	2.47	-	-	0.97
Other flatfish	0.85	12.46	-	0.15	13.82
Pacific cod	23.23	65.14	-	0.17	26.36
Lingcod	-	0.31	-	-	6.97
Sablefish	-	0.14	-	-	-
Pollock	-	-	3.83	11.44	1.28
Pacific ocean perch	-	-	-	-	-
Bocaccio	-	-	-	-	-
Canary rockfish	-	0.01	-	-	-
Redstripe rockfish	-	-	-	-	-
Rougheye rockfish	-	-	-	-	-
Silvergray rockfish	-	-	-	-	-
Yellowmouth rockfish	-	0.77	-	-	-
Yellowtail rockfish	-	-	-	-	-
Widow rockfisn	-	-	-	-	-
Other rockfish	0.09	2.06	-	0.07	5.19
Hake	-	-	35.27	355.62	2,420.36
Octopus	-	0.10	-	-	-
Perch	-	0.35	-	0.06	1.11
Skate	0.18	1.16	-	-	0.33
Squid	-	-	-	-	-
Sturgeon	-	-	-	-	-
Misc. species	-	-	-	-	-
Dogfish	93.68	90.28	-	-	12.62
Reduction	-	-	-	-	0.68
Animal food	-	-	-	-	-
Total	120.70	186.32	39.10	367.51	2,491.50
Crab	-	-	-	-	-
Dumped fish	-	-	-	-	-
Discards	1.22	17.15	-	0.96	4.20

Table 5 (cont'd)

Species	Minor Area 18	19	20	29	Total
English sole	4.65	3.92	28.88	0.13	559.15
Rock sole	0.22	1.08	7.75	-	744.99
Petrale sole	-	0.74	3.97	-	366.50
Dover sole	0.54	9.70	153.57	-	914.10
Rex sole	-	-	0.42	-	73.90
Butter sole	-	-	-	-	0.46
Sand sole	-	-	-	-	0.74
Turbot	0.13	8.50	8.22	-	525.17
Starry flounder	1.55	0.06	-	-	167.56
Other flatfish	45.03	23.61	29.60	0.03	218.46
Pacific cod	125.91	617.76	148.84	0.30	4,794.18
Lingcod	7.85	33.98	30.47	0.03	2,878.54
Sablefish	0.20	0.90	4.30	-	247.80
Pollock	60.94	7.20	10.60	4.81	924.21
Pacific ocean perch	-	-	5.90	-	5,983.33
Bocaccio	-	-	-	-	79.23
Canary rockfish	-	0.17	0.34	-	737.39
Redstripe rockfish	-	-	-	-	68.25
Rougheye rockfish	-	-	-	-	385.43
Silvergray rockfish	-	-	0.08	-	1,059.70
Yellowmouth rockfish	-	-	-	-	1,157.39
Yellowtail rockfish	-	1.11	6.12	-	495.63
Widow rockfish	-	-	-	-	63.79
Other rockfish	9.65	10.17	6.75	0.19	597.74
Hake	0.55	-	0.45	11.57	2,825.79
Octopus	0.28	0.32	0.25	-	4.38
Perch	0.56	-	-	-	2.21
Skate	4.12	3.70	3.55	-	128.86
Squid	-	0.03	-	0.03	0.11
Sturgeon	-	0.01	0.75	-	3.64
Misc. species	-	0.03	-	-	0.03
Dogfish	95.75	107.79	17.28	-	1,718.66
Reduction	-	2.29	-	-	449.86
Animal food	-	-	-	-	65.46
Total	357.93	833.07	468.09	17.09	28,242.64
Crab	0.90	0.23	1.11	-	2.28
Dumped fish	-	-	-	0.01	54.25
Discards	3.72	11.46	46.10	-	3,598.61

Tables of monthly catch (t) by major area

TABLE 6. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 4B - STRAIT OF GEORGIA.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	3.82	3.47	3.24	.59	2.18	1.80	4.48	4.64	3.95	2.48	13.69	1.81	46.15
ROCK S.	1.12	4.47	.94	1.18	2.13	.07	1.18	.01		.02	3.96	.48	15.56
PETRALE S.	.01				.23	1.04	.53		1.28	1.34	.38		4.81
DOVER S.	.15		.09	.05	15.78	28.85	36.84	46.56	21.00	6.75	7.74		163.81
REX SOLE							.22				.20		.42
STARRY FLDR	1.96	3.09	.34	.43			.04	.34		.16	2.58	.85	9.79
TURBOT	.28	.32	.56	.30	2.07	.47	.54	4.98	2.65	3.71	.88	.09	16.85
OTHER FLAT.	12.14	11.61	10.42	8.26	10.95	6.31	3.04	6.75	8.91	22.05	15.14	11.98	127.56
PACIFIC COD	252.62	66.73	157.30	77.83	59.44	30.86	32.40	24.61	16.36	21.91	145.65	125.35	1011.06
LINGCOD			.03	.66	12.63	27.41	8.93	5.79	8.25	6.81	6.84	2.26	79.61
SABLEFISH	.17	.01	.01		1.08	.57	1.75	.33	.35	.50	.69	.08	5.54
POLLOCK	7.00	23.99	57.83	.08	.17	.01	1.17	1.29	1.26	2.81	4.28	.21	100.10
HAKE	163.39	194.69	.02	673.12	848.82	405.11	43.55	.59	195.17	172.44	126.92		2823.82
OCEAN PERCH						5.25	.65						5.90
OTHER ROCKF.	9.26	2.00	3.84	1.24	2.40	2.03	2.79	2.09	1.81	4.52	7.87	2.92	42.77
MISC. SP.	1.07	1.35	2.17	2.00	2.27	.86	.36	.46	.67	.98	3.55	1.55	17.29
DOGFISH	66.88	23.99	9.21	.40	8.94	16.65	43.92	38.71	37.31	3.48	126.57	41.34	417.40
ANIMAL FOOD													
REDUCTION						2.34	.45	.18					2.97
TOTAL	519.87	335.72	246.00	766.14	969.09	529.63	182.84	137.33	298.97	249.96	466.94	188.92	4891.41

TABLE 7. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 3C - SOUTHWEST COAST VANCOUVER ISLAND.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.27	2.10	.66	2.35	13.66	11.13	7.31	5.92	6.86	4.30	4.52	.17	59.25
ROCK S.		20.76	8.60	11.02	5.02	7.63	12.11	4.63	6.24	.71	1.61		78.33
PETRALE S.	12.63	9.98	4.14	44.64	19.28	23.18	31.18	27.12	46.75	7.49	5.15	.74	232.28
DOVER S.	8.44	24.29	21.53	35.87	33.71	12.27	3.29	9.02	8.73	.05	6.75	.04	163.99
REX SOLE													
STARRY FLDR		2.23		4.74	4.27	1.70			.64		1.40	.22	15.20
TURBOT		.11			3.91	30.73	12.69	6.53	18.47	3.05	.09		75.58
OTHER FLAT.		8.68	1.49	9.89	9.98	9.34	7.11	.13	9.39	4.53	8.54		69.08
PACIFIC COD		335.89	287.88	76.03	145.56	75.07	59.07	23.22	39.43	28.93	14.77	.21	1086.06
LINGCOD				5.83	82.84	313.39	489.08	269.37	280.96	61.23	7.09		1509.79
SABLEFISH	.27	.39		2.36	8.37	30.73	36.63	5.32	18.94	33.77	8.96	.16	145.90
POLLOCK		5.68			.01	1.11					2.70		9.50
HAKE								1.54					1.54
OCEAN PERCH	28.46	51.03	29.17	19.77	62.10	.03		9.98	.02		163.24	31.45	395.25
OTHER ROCKF.	9.26	8.27	1.58	6.65	88.40	30.76	8.71	112.77	37.64	2.90	26.28	10.89	344.11
MISC. SP.		2.11	.89	3.19	2.19	1.49	1.19	1.24	.60	.78	.49	.10	14.27
DOGFISH		200.09	9.07	366.24	105.51	140.36	53.85	17.14	10.93	43.60			946.79
ANIMAL FOOD													
REDUCTION	8.26	5.51	.45	2.93	18.26		.38		.66	.97	9.85	.36	47.63
TOTAL	67.59	677.12	365.46	591.51	603.07	688.92	722.60	493.93	486.26	192.31	261.44	44.34	5194.55

TABLE 8. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 3D - NORTHWEST COAST VANCOUVER ISLAND.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.15			1.11	2.30		.65			.18		4.39
ROCK S.		.82	7.45		2.00	3.64		.21		.57			14.69
PETRALE S.		9.75	10.76		4.27	.13		4.13	.12	.12	.56		29.84
DOVER S.	.10	4.71	2.74	5.04	3.19	1.67	.38	.47	4.23	.27	1.16		23.96
REX SOLE													
STARRY FLDR													
TURBOT													
OTHER FLAT.				.53	9.99								10.52
PACIFIC COD		5.25		.74	23.91	2.12	.69	1.28	1.46	.94	.43		36.82
LINGCOD				.59	18.65	4.77	2.77	10.56	3.13	4.70	2.78	.61	48.56
SABLEFISH	.14	1.29	.65	.37					3.39	.20	1.29		7.33
POLLOCK		.03											.03
HAKE													
OCEAN PERCH	4.53	22.28	5.70	4.03	2.48						73.85		112.87
OTHER ROCKF.		8.17	.31	105.31	24.45	27.41	2.95	15.91	70.72	21.27	73.25	54.24	403.99
MISC. SP.		.17		.05	.49	.01			.69		.06	.07	1.54
DOGFISH		4.42			13.34	5.49							23.25
ANIMAL FOOD													
REDUCTION		.16		1.39	.15						1.78		3.48
TOTAL	4.77	57.20	27.61	118.05	104.03	47.54	6.79	33.21	83.74	28.07	155.34	54.92	721.27

TABLE 9. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 5A - SOUTH QUEEN CHARLOTTE SOUND.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.93	.80	2.83	1.83	2.31	.50	.09	1.01	.39	.25	.99	11.93
ROCK S.		2.03		4.41	39.28	79.34	23.52	17.81	18.77	3.23	.97		189.36
PETRALE S.		.78	.37	3.43	2.00	6.42	5.48	3.47	9.62	3.29	1.75	3.78	40.39
DOVER S.				1.51	.03	7.55	6.36	.72	1.94		.08		18.19
REX SOLE					.01								.01
STARRY FLDR													
TURBOT				.58	.37	77.76	46.93	2.98	5.29	2.70	.04		136.65
OTHER FLAT.		.75			6.61	.55							7.91
PACIFIC COD		10.59	1.05	73.16	25.10	55.00	42.88	9.16	22.41	7.94	3.32	7.13	257.74
LINGCOD		10.75	1.59	34.95	22.70	81.63	112.03	56.22	127.57	7.82	6.43	5.59	467.28
SABLEFISH				.06		.18	.62	.68	.29	.02	.19	.56	2.60
POLLOCK				.01	.16	.54				.05	.20	.17	1.13
HAKE													
OCEAN PERCH				.24	1.45	53.95	2.88	8.34	2.43		2.98	6.13	78.40
OTHER ROCKF.		2.60	11.23	154.39	86.78	226.69	27.99	56.13	120.71	33.79	91.82	134.90	947.03
MISC. SP.		.09		2.00	2.85	4.41	1.73	1.22	1.15	.34			13.79
DOGFISH		12.24			1.39								13.63
ANIMAL FOOD													
REDUCTION				.49	3.63	7.67			.48		16.75	4.62	33.64
TOTAL		40.76	15.04	278.06	194.19	604.00	270.92	156.82	311.67	59.57	124.78	163.87	2219.68

TABLE 10. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 5B - NORTH QUEEN CHARLOTTE SOUND.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.09	.19	.15	1.72	3.11	.33	.70	2.05	1.52	.29		10.15
ROCK S.		.06	.04	.21	2.88	16.86	27.52	37.06	41.70	28.73			155.06
PETRALE S.		.39	.19	.71	1.46	4.05	1.20	1.95	5.29	3.80	1.21		20.25
DOVER S.		.49		.22	2.38	22.30	5.42		.99	.50			32.30
REX SOLE		.02	.05			.05			.05				.17
STARRY FLDR													
TURBOT		.22				57.48	34.81	13.10	39.26				144.87
OTHER FLAT.								1.42					1.42
PACIFIC COD		2.04	2.67	26.18	78.92	184.12	12.31	6.50	4.97	10.12	8.69		336.52
LINGCOD		.32	4.54	4.12	56.46	203.69	55.42	99.51	111.50	41.36	2.96		579.88
SABLEFISH			.10	.05	1.15	2.02	.61		1.94	1.59	.36		7.82
POLLOCK		.30			.40	4.04	.27	1.14	.10				6.25
HAKE													
OCEAN PERCH	36.98	253.62	76.68	159.10	375.86	926.32	284.06	287.66	91.40	124.32	86.47		2702.47
OTHER ROCKF.	37.18	111.39	117.82	86.59	120.99	259.47	120.59	139.90	63.21	140.53	82.01	.86	1280.54
MISC. SP.		.42	.24	.81	4.13	2.33	2.12	.59	1.34	.46	.05		12.49
DOGFISH		.02		9.75	33.73					1.15			44.65
ANIMAL FOOD				18.73	.84	4.66	.36	1.37	.14		.11		26.21
REDUCTION		2.54	.10	.67	5.77	116.08	4.04	4.52	.08	5.17	29.62		168.59
TOTAL	74.16	371.92	202.62	307.29	686.69	1806.58	549.06	595.42	364.02	359.25	211.77	.86	5529.64

TABLE 11. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 5C - SOUTH HECATE STRAIT.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		3.56	.73	.71	1.14	4.12	3.95	1.20	4.35	2.06	4.71		26.53
ROCK S.	.64	2.70	1.72	2.92	6.38	8.45	16.03	2.55	19.64	7.14	1.37		69.52
PETRALE S.	.05	2.51	.02	.31	.23	.60	2.46	.80	.19	.36			7.53
DOVER S.	.04	.03	.02	.29	1.68	1.55			.79	.74			5.14
REX SOLE		.07		.10		.61			1.47	.78			3.03
STARRY FLDR		.07											.07
TURBOT		.42		.21		.11			3.91	6.88	.01		11.54
OTHER FLAT.	.82												.82
PACIFIC COD	40.79	70.52	60.19	19.84	18.38	167.90	54.09	32.07	24.69	7.93	8.73		505.13
LINGCOD	.38	.30	.18	1.87	.92	10.97	13.80	35.56	25.58	5.45	.91		95.92
SABLEFISH		.02		.27	.24	.16			1.54	6.76	.09		9.08
POLLOCK	.30	.14			.17	.23	.08		2.26	.02			3.20
HAKE									.43				.43
OCEAN PERCH		39.51		52.92	288.14	605.74	434.82		81.58	200.92			1703.63
OTHER ROCKF.		20.75		14.91	73.51	93.74	37.61	.29	43.34	104.64	17.89		406.68
MISC. SP.	.03	1.19	.18	2.89	.97	3.20	.76	.41	1.98	.74	.10		12.45
DOGFISH								.45	.02				.47
ANIMAL FOOD						8.36	.14		.31	.71	.47		9.99
REDUCTION		4.42			10.26	45.83	21.89	.36	1.64	2.95			87.35
TOTAL	43.05	146.21	63.04	97.24	402.02	951.57	585.63	73.67	213.72	348.08	34.28		2958.51

TABLE 12. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 5D - NORTH HECATE STRAIT.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	31.21	84.87	5.69	52.84	32.72	51.15	32.46	15.56	19.32	8.99	51.71	14.16	400.68
ROCK S.	.61	19.80	.16	14.55	49.77	18.63	6.09	19.16	.75	7.41	55.55	29.96	222.44
PETRALE S.	1.03	.44		1.14	1.20	2.13	.17	.10	.07	.36	1.91	.34	8.89
DOVER S.	.09	.02	3.85	1.07	3.65	83.13	79.96	157.06	109.60	19.09	21.24	1.04	479.80
REX SOLE	1.18	3.52	.25	1.80	.55	6.07	3.52	5.92	10.53	7.07	24.49	4.05	68.95
STARRY FLDR	.15	18.34		.75	8.07	.94	1.94	.21	.94	32.06	23.79	55.31	142.50
TURBOT	.20	3.29	.23	.78	3.30	21.06	9.84	32.09	45.35	15.68	6.88	.71	139.41
OTHER FLAT.					.47							1.88	2.35
PACIFIC COD	158.92	159.96	22.70	101.42	293.17	219.49	276.66	106.37	104.67	12.19	86.70	17.30	1559.55
LINGCOD	3.25	10.02	.25	2.80	7.26	10.76	31.47	8.59	11.95	1.07	5.87	2.34	95.63
SABLEFISH	.01		.15		.04	.72	.90	8.38	11.52	20.03	.72	.02	42.49
POLLOCK	.07	5.65	.62	1.77	13.98	21.18	5.13	5.12	50.42	142.54	556.09	.98	803.55
HAKE													
OCEAN PERCH		.04				.07	.10	.19	.41	11.19	5.54		17.54
OTHER ROCKF.	1.68	9.43	.36	1.00	.62	2.91	1.69	18.93	25.41	30.08	43.39	3.47	138.97
MISC. SP.	3.91	17.93	1.18	14.88	8.78	2.24	4.60	1.82	1.93	1.66	6.22	2.20	67.35
DOGFISH	.85	8.49			2.94	5.51	1.89	246.61	.94	.01	1.73	3.50	272.47
ANIMAL FOOD					3.22	1.10	3.04	6.33	2.81	1.05	8.27		25.82
REDUCTION		28.03			.24	.98					.75		30.00
TOTAL	203.16	369.83	35.44	194.80	429.98	448.07	459.46	632.44	396.62	310.48	900.85	137.26	4518.39

TABLE 13. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH - INTERNATIONAL AREA 5E - WEST COAST QUEEN CHARLOTTE IS.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.									.01			.06	.07
ROCK S.									.03				.03
PETRALE S.	.57	12.25	6.58	2.63					.01		.30	.17	22.51
DOVER S.	1.42	17.22	4.92	1.94	.26	.72			.02		.15	.26	26.91
REX SOLE		.93									.39		1.32
STARRY FLDR													
TURBOT				.02							.25		.27
OTHER FLAT.													
PACIFIC COD		.19	.05	.03					.06			.97	1.30
LINGCOD		.06	.11	.04	.11				.18		.57	.80	1.87
SABLEFISH		3.25	1.14	.37	.10	.25			.08		21.36	.49	27.04
POLLOCK				.01	.09	.14				.19		.02	.45
HAKE													
OCEAN PERCH	29.59	46.50	69.65	255.36	216.46	106.28			29.28	25.69	124.41	66.05	967.27
OTHER ROCKF.	84.65	253.77	210.22	133.98	92.76	94.03			54.87	25.64	66.23	64.31	1080.46
MISC. SP.											.05		.05
DOGFISH													
ANIMAL FOOD				.99	.18				.46	1.38	.43		3.44
REDUCTION				.31	14.27	21.06	26.08		1.11		2.95	10.42	76.20
TOTAL	116.23	334.17	292.67	395.68	324.23	222.48	26.08		86.11	50.90	217.09	143.55	2209.19

Tables of monthly catch (t) by minor area

TABLE 14. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 1W.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE												.06	.06
PETRALE S.	.19	7.17	.90										
DOVER SOLE	.24	16.22			.06	.57					.30	.17	8.73
REX SOLE		.93									.15	.26	17.50
BUTTER SOLE													.93
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR											.25		.25
OTHER FLAT.													
PACIFIC COD		.19											
LINGCOD		.06	.02		.02							.97	1.16
SABLEFISH		.73	.15		.05	.17					.57	.80	1.47
POLLOCK					.09	.14					21.36	.49	22.95
												.02	.25
OCEAN PERCH	13.57	27.40	18.55	18.46	63.43	22.86					123.30	66.05	353.62
BOCACCIO													
CANARY RF													
REDSTR. RF	3.22	1.80	1.34		.08								6.44
ROUGHEYE RF	18.38	10.48	21.89	17.17	.94						.22		69.08
SIL'GRAY RF		26.96	1.34								1.24		29.54
YEL'MOUTH R	29.87	5.24	17.29		.41	20.74					10.52		84.07
YEL'TAIL RF													
WIDOW RF		37.74			.20						8.06		46.00
OTHER RF	2.85	2.50	7.26								33.22	64.31	110.14
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID											.05		.05
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION				.31							2.95	10.42	13.68
ANIMALFOOD											.43		.43
TOTAL	68.32	137.42	68.74	35.94	65.28	44.48					202.62	143.55	766.35
CRAB													
DUMPED FISH													
DISCARDS			2.27			18.14							20.41

TABLE 19. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 2AW.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.									.01				.01
ROCK SOLE									.03				.03
PETRALE S.	.38	5.08	5.68	2.63					.01				13.78
DOVER SOLE	1.18	1.00	4.92	1.94	.20				.02				9.26
REX SOLE											.39		.39
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT				.02									.02
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD			.05	.03					.06				.14
LINGCOD			.09	.04					.18				.31
SABLEFISH		2.52	.99	.13	.01	.08			.08				3.81
POLLOCK				.01						.19			.20
OCEAN PERCH	5.82	14.61	51.09	184.62	4.86	17.30			19.55	23.69	1.11		322.65
BOCACCIO										.52			.52
CANARY RF									2.20				2.20
REDSTR. RF	1.38	3.14	7.91	2.37	14.34	.40			2.48	1.50			33.52
ROUGHEYE RF	16.08	94.18	100.93	54.65	2.94	2.01					.88		271.67
SIL'GRAY RF			9.21	6.62	.99	1.27			4.45	.12	.89		23.55
YEL'MOUTH R	11.49	61.10	39.94	38.02	69.22	48.26			42.76	22.82	10.51		344.12
YEL'TAIL RF													
WIDOW RF			2.27		2.48								4.75
OTHER RF	1.38	2.77	.84	13.71		.80				.68	.69		20.87
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION					14.27	21.06	24.95		1.11				61.39
ANIMALFOOD				.39						1.38			1.77
TOTAL	37.71	184.40	223.92	305.18	109.31	91.18	24.95		72.94	50.90	14.47		1114.96
CRAB													
DUMPED FISH													
DISCARDS		8.16		1.81									9.97

TABLE 16. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 2BW.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE													
PETRALE S.													
DOVER SOLE						.15							.15
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD													
LINGCOD					.09								.09
SABLEFISH				.24	.04								.28
POLLOCK													
OCEAN PERCH	10.20	4.49		52.29	148.17	66.11			9.74				291.00
BOCACCIO													
CANARY RF													
REDSTR. RF									.02				.02
ROUGHEYE RF					.22	2.04							2.26
SIL'GRAY RF				.96					.10				1.06
YEL'MOUTH R		7.86				18.51			.49				26.86
YEL'TAIL RF													
WIDOW RF													
OTHER RF				.48	.94				2.37				3.79
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION							1.13						1.13
ANIMALFOOD				.60	.18				.46				1.24
TOTAL	10.20	12.35		54.57	149.64	86.81	1.13		13.18				327.88
CRAB													
DUMPED FISH													
DISCARDS				.68									.68

TABLE 17. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 1E.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.04	.05		2.37	.09	.40	.23	.09		.04	3.20	6.51
ROCK SOLE		7.37		.05	.11						.99	14.65	23.17
PETRALE S.				.49	.09						.03		.61
DOVER SOLE				1.05	.19	.32	1.35		.25	4.24	1.84		9.24
REX SOLE			.02						.01	3.49	1.01		4.53
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT					.08					11.60	2.48		14.16
STAR.FLDR		17.11		.01	.02	.01				31.82	2.34	53.89	105.20
OTHER FLAT.													
PACIFIC COD		8.15	.04	.01	7.50	.90	.36	.90	.04	.95	2.41	2.55	23.81
LINGCOD		.15			.22	.13		.07		.34	.28	.31	1.50
SABLEFISH									.38	2.14	.42		2.94
POLLOCK									1.38	116.69	551.12	.25	669.44
OCEAN PERCH							.03		.14	11.19	5.54		16.90
BOCACCIO											1.08		1.08
CANARY RF							.02						.02
REDSTR. RF										.92			.92
ROUGHEYE RF													
SIL'GRAY RF							.04		.14	2.41	6.29		8.88
YEL'MOUTH R													
YEL'TAIL RF		.11					.10	2.82	.19	4.23	13.47		20.92
WIDOW RF											3.34		3.34
OTHER RF		.63					.09		.12	11.83	.99	.16	13.82
HAKE													
OCTOPUS		.01								.04	.02		.07
PERCH													
SKATE		.62			.07					.08	.24		1.01
SQUID													
STURGEON													
MISC. SP.													
DOGFISH		.24								.01			.25
REDUCTION													
ANIMALFOOD										.83	6.71		7.54
TOTAL		34.43	.11	1.61	10.65	1.45	2.39	4.02	2.74	202.81	600.64	75.01	935.86
CRAB													
DUMPED FISH													
DISCARDS		1.36		1.41	5.44	3.63			2.72	83.92	1.36	.91	100.75

TABLE 18. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 2AE.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.					.11								.11
ROCK SOLE					.04								.04
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.												1.88	1.88
PACIFIC COD					3.93							2.80	6.73
LINGCOD												.53	.53
SABLEFISH													
POLLOCK													
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF					.01							.27	.28
HAKE													
OCTOPUS													
PERCH													
SKATE												.13	.13
SQUID												.24	.24
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION								233.60				3.50	237.10
ANIMALFOOD					.01								.01
TOTAL					4.10			233.60				9.35	247.05
CRAB													
DUMPED FISH													
DISCARDS													

TABLE 19. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 4.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	5.20	59.92	5.04	48.20	26.88	47.28	32.06	15.14	12.17	3.29	34.03	9.41	298.62
ROCK SOLE	.16	.94	.03	2.58	35.53	17.58	6.09	19.16	.75	7.11	40.99	13.76	144.68
PETRALE S.	.09			.06	.44	1.39	.08	.10	.04	.11	.13	.05	2.49
DOVER SOLE	.01	.02	3.85	.02	3.44	68.20	60.68	139.43	96.44	5.29	17.80	1.04	396.22
REX SOLE	.29	2.57	.23	1.43	.49	5.86	3.52	5.92	10.52	2.41	22.03	4.05	59.32
BUTTER SOLE					.46								.46
FLATHEAD S.													
SAND SOLE					.01								.01
TURBOT	.16	3.27	.23	.63	2.43	15.58	9.84	28.74	40.01	.82	.38	.09	102.18
STAR.FLDR	.15	.06		.72	8.05	.93	1.94	.20	.93	.24	21.44	1.35	36.01
OTHER FLAT.													
PACIFIC COD	2.14	22.81	7.51	37.38	232.81	212.10	273.33	101.83	102.41	8.43	20.84	11.45	1033.04
LINGCOD	.12	5.19	.09	1.67	5.89	10.47	27.52	8.52	11.75	.61	3.23	1.15	76.21
SABLEFISH			.15		.04	.72	.88	2.67	2.00	.86	.01	.01	7.34
POLLOCK	.07	5.41	.62	1.71	13.82	21.08	5.13	5.12	48.91	25.58	4.14	.73	132.32
OCEAN PERCH						.03	.04	.19	.27				.53
BOCACCIO									.27	.10	.42	.50	1.29
CANARY RF						.57	.33		.01	.05	.04		1.00
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF					.01	.34	.21	.34	1.86	.16	1.84		4.76
YEL'MOUTH R													
YEL'TAIL RF	1.61	6.96	.33	.13	.06	.40	.11	4.34	17.81	1.21	.33		33.29
WIDOW RF													
OTHER RF		1.26		.59	.38	1.03	.79	11.43	4.87	.04	1.94	2.32	24.65
HAKE													
OCTOPUS		.14		.03	.05	.06	.01	.05	.04	.02	.50	.16	1.06
PERCH													
SKATE	.38	11.56	1.08	10.68	7.64	2.18	4.32	1.71	1.84	1.49	3.67	1.60	48.15
SQUID													
STURGEON													
MISC. SP.													
DOGFISH	.28					5.51	1.89	8.47	.77		1.13		18.05
REDUCTION		26.39											26.39
ANIMALFOOD					3.21	1.10	3.04	3.93	2.81	.12	1.03		15.24
TOTAL	10.66	146.50	19.16	105.83	341.64	412.41	431.81	357.29	356.48	57.94	175.92	47.67	2463.31
CRAB													
DUMPED FISH				26.83	.03								26.86
DISCARDS	2.27	76.20		30.39	90.27	440.04	66.88	24.95	56.70	11.79	205.03	27.22	1031.74

TABLE 20. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 5 UP.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	26.01	24.91	.60	4.64	3.36	3.78		.19	7.06	5.70	17.64	1.55	95.44
ROCK SOLE	.45	11.49	.13	11.91	14.10	1.05				.30	13.57	1.55	54.55
PETRALE S.	.94	.44		.59	.68	.73	.09		.03	.25	1.75	.29	5.79
DOVER SOLE	.08				.02	14.61	17.93	17.63	12.91	9.56	1.60		74.34
REX SOLE	.89	.95	.01	.37	.06	.21				1.17	1.44		5.10
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT	.04	.02		.16	.78	5.50		3.35	5.33	3.25	4.02	.62	23.07
STAR.FLDR		1.17		.02				.02	.01			.07	1.29
OTHER FLAT.													
PACIFIC COD	156.79	129.01	15.15	64.03	48.93	6.49	2.98	3.64	2.21	2.81	63.44	.49	495.97
LINGCOD	3.13	4.69	.16	1.13	1.15	.16	3.95		.20	.12	2.36	.34	17.39
SABLEFISH	.01						.02	5.71	9.14	17.03	.29	.01	32.21
POLLOCK		.24		.06	.17	.09			.12	.27	.84		1.79
OCEAN PERCH		.04				.04	.03						.11
BOCACCIO									.03	2.38	2.90		5.31
CANARY RF					.03					1.41	.07	.04	1.55
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF					.04	.57				5.09	9.28		14.98
YEL'MOUTH R													
YEL'TAIL RF											.29		.29
WIDOW RF													
OTHER RF	.07	.47	.03	.28	.09				.11	.25	1.11	.18	2.59
HAKE													
OCTOPUS	.10	.31	.01	.07	.02						.41	.07	.99
PERCH													
SKATE	3.43	5.28	.09	4.10	1.00		.27	.06	.05	.03	1.38		15.69
SQUID													
STURGEON		.01											.01
MISC. SP.													
DOGFISH	.57	8.25			2.94			4.54	.17		.60		17.07
REDUCTION		1.64			.24	.98					.75		3.61
ANIMALFOOD								2.40		.11	.52		3.03
TOTAL	192.51	188.92	16.18	87.36	73.61	34.21	25.27	37.54	37.37	49.73	124.26	5.21	872.17
CRAB													
DUMPED FISH													
DISCARDS	30.39	9.03		236.55	61.58	22.29			42.18	64.18	40.37	1.36	507.93

TABLE 21. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 2BE.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		1.80	.73	.71	1.14	4.12	3.95	1.20	1.17	1.40	4.26		20.48
ROCK SOLE	.64	2.70	1.72	2.92	6.38	8.45	16.03	2.53	19.64	6.89	1.37		69.27
PETRALE S.	.05	2.49	.02	.18		.60	2.46	.80	.12	.36			7.08
DOVER SOLE	.04	.03	.02	.01	1.68	.97			.68	.01			3.44
REX SOLE		.07		.10		.07			1.45	.01			1.70
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT		.06		.21					3.91	6.79	.01		10.98
STAR.FLDR		.07											.07
OTHER FLAT.	.82												.82
PACIFIC COD	40.79	69.99	60.19	19.84	15.77	167.89	54.09	32.07	23.90	7.72	8.73		500.98
LINGCOD	.38	.30	.18	.88	.31	9.54	13.80	35.56	25.17	4.26	.64		91.02
SABLEFISH		.02			.24	.16			.42	.16			1.00
POLLOCK	.30	.14			.17	.23	.08		.11	.02			1.05
OCEAN PERCH		39.51			288.14	593.17	434.82		79.02	200.92			1635.58
BOCACCIO				.04	.19		.07		.27		.42		.99
CANARY RF					22.79	11.72	.60		.17	5.24	8.07		48.59
REDSTR. RF					2.12	.37			.01	5.16			7.66
ROUGHEYE RF						11.48	.54		5.91				17.93
SIL'GRAY RF		20.53		9.14	25.23	15.55	1.64		1.68	6.39	9.16		89.32
YEL'MOUTH R					2.12	39.30	28.48		22.91	70.32			163.13
YEL'TAIL RF									.33	4.86			5.19
WIDOW RF							1.09						1.09
OTHER RF		.22		.12	20.77	10.28	5.19	.29	4.06	9.51	.24		50.68
HAKE													
OCTOPUS	.03	.25	.18	.04	.03								.53
PERCH													
SKATE		.94		2.85	.95	3.20	.76	.41	1.98	.74	.03		11.86
SQUID													
STURGEON													
MISC. SP.													
DOGFISH								.45	.02				.47
REDUCTION		4.42			10.26	45.83	21.89	.36	1.64	2.95			87.35
ANIMALFOOD						8.36	.14		.31	.71	.47		9.99
TOTAL	43.05	143.54	63.04	37.04	398.29	931.29	585.63	73.67	194.88	334.42	33.40		2838.25
CRAB													
DUMPED FISH					1.82								1.82
DISCARDS	.91	1.13			24.95	40.49	.91	2.68	46.27	4.54	10.44		132.32

TABLE 22. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 5 LOW.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		1.76							3.18	.66	.45		6.05
ROCK SOLE										.25			.25
PETRALE S.		.02		.13	.23				.07				.45
DOVER SOLE				.28		.12			.11	.73			1.24
REX SOLE						.08			.02				.10
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT		.36				.11			.01				.48
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD		.53			2.61				.80	.21			4.15
LINGCOD				.98	.61	1.37			.40	1.11	.27		4.74
SABLEFISH				.27					1.12	6.60	.09		8.08
POLLOCK									2.15				2.15
OCEAN PERCH				52.92		11.18			2.55				66.65
BOCACCIO					.29				.11				.40
CANARY RF									3.96	1.26			5.22
REDSTR. RF									.10				.10
ROUGHEYE RF													
SIL'GRAY RF									2.85				2.85
YEL'MOUTH R				5.56									5.56
YEL'TAIL RF									.67	1.90			2.57
WIDOW RF													
OTHER RF				.05		2.35			.31				2.71
HAKE									.43				.43
OCTOPUS													
PERCH													
SKATE											.06		.06
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL		2.67		60.19	3.74	15.21			18.84	12.72	.87		114.24
CRAB													
DUMPED FISH													
DISCARDS						.04			14.06				14.10

TABLE 23. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 6.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE													
PETRALE S.													
DOVER SOLE						.46							.46
REX SOLE						.46				.77			1.23
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT										.08			.08
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD													
LINGCOD						.07				.09			.16
SABLEFISH													
POLLOCK													
OCEAN PERCH						1.40							1.40
BOCACCIO													
CANARY RF						2.53							2.53
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF						.16							.16
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF													
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL						5.08				.94			6.02
CRAB													
DUMPED FISH													
DISCARDS		.27		1.59		3.63							5.49

TABLE 24. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 8.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.09	.19	.15	1.72	3.11	.33	.70	2.05	1.52	.29		10.15
ROCK SOLE		.06	.04	.21	2.88	16.86	27.52	37.06	41.70	28.73			155.06
PETRALE S.		.39	.19	.71	1.46	4.05	1.20	1.95	5.29	3.80	1.21		20.25
DOVER SOLE		.49		.22	2.38	22.30	5.42		.99	.50			32.30
REX SOLE		.02	.05			.05			.05				.17
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT		.22				57.48	34.81	13.10	39.26				144.87
STAR.FLDR													
OTHER FLAT.								1.42					1.42
PACIFIC COD		2.04	2.67	26.18	78.92	184.12	12.31	6.50	4.97	10.12	8.69		336.52
LINGCOD		.32	4.54	4.12	56.46	203.69	55.42	99.51	111.50	41.36	2.96		579.88
SABLEFISH			.10	.05	1.15	2.02	.61		1.94	1.59	.36		7.82
POLLOCK		.30			.40	4.04	.27	1.14	.10				6.25
OCEAN PERCH	36.98	253.62	76.68	159.10	375.86	926.32	284.06	287.66	91.40	124.32	86.47		2702.47
BOCACCIO		.43	.12	1.05	6.20	4.53	3.11	1.60	2.95	13.15	.76		33.90
CANARY RF		18.37	21.91	4.38	14.62	43.19	5.76	7.11	15.66	30.95	38.38	.43	200.76
REDSTR. RF	2.68	.20	3.82		2.12	.39		2.23	.01	3.41			14.86
ROUGHEYE RF		.67	14.38			.80	2.71	1.33	.02				19.91
SIL'GRAY RF	30.55	44.50	28.51	36.33	31.76	55.16	13.66	26.05	16.64	23.66	23.34	.43	330.59
YEL'MOUTH R	3.31	31.60	40.54		3.03	29.56	73.52	89.02	3.14	59.90	12.96		346.58
YEL'TAIL RF		11.83	7.35	43.32	31.02	84.60	6.20	.37	24.24	3.00	3.29		215.22
WIDOW RF					2.33	3.75		.18					6.26
OTHER RF	.64	3.79	1.19	1.51	29.91	37.49	15.63	12.01	.55	6.46	3.28		112.46
HAKE													
OCTOPUS		.04			.01	.01			.01				.07
PERCH													
SKATE		.38	.24	.81	3.97	2.32	2.12	.59	1.33	.46	.05		12.27
SQUID													
STURGEON					.15								.15
MISC. SP.													
DOGFISH		.02		9.75	33.73					1.15			44.65
REDUCTION		2.54	.10	.67	5.77	116.08	4.04	4.52	.08	5.17	29.62		168.59
ANIMALFOOD				18.73	.84	4.66	.36	1.37	.14		.11		26.21
TOTAL	74.16	371.92	202.62	307.29	686.69	1806.58	549.06	595.42	364.02	359.25	211.77	.86	5529.64
CRAB													
DUMPED FISH						4.54	1.81						6.35
DISCARDS		122.18	24.95	54.43	27.56	84.16	28.30	17.24	22.00	29.48	27.22	.91	438.43

TABLE 25. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 9.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE						.09							.09
PETRALE S.						.15							.15
DOVER SOLE						.51							.51
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD													
LINGCOD													
SABLEFISH													
POLLOCK													
OCEAN PERCH						.19							.19
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF													
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL						.94							.94
CRAB													
DUMPED FISH													
DISCARDS													

TABLE 26. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 11.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.93	.80	2.83	1.83	2.31	.50	.09	1.01	.39	.25	.99	11.93
ROCK SOLE		2.03		4.41	39.28	79.25	23.52	17.81	18.77	3.23	.97		189.27
PETRALE S.		.78	.37	3.43	2.00	6.27	5.48	3.47	9.62	3.29	1.75	3.78	40.24
DOVER SOLE				1.51	.03	7.04	6.36	.72	1.94		.08		17.68
REX SOLE					.01								.01
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT				.58	.37	77.76	46.93	2.98	5.29	2.70	.04		136.65
STAR.FLDR													
OTHER FLAT.		.75			6.61	.55							7.91
PACIFIC COD		10.59	1.05	73.16	25.10	55.00	42.88	9.16	22.41	7.94	3.32	7.13	257.74
LINGCOD		10.75	1.59	34.95	22.70	81.63	112.03	56.22	127.57	7.82	6.43	5.59	467.28
SABLEFISH				.06		.18	.62	.68	.29	.02	.19	.56	2.60
POLLOCK				.01	.16	.54				.05	.20	.17	1.13
OCEAN PERCH				.24	1.45	53.76	2.88	8.34	2.43		2.98	6.13	78.21
BOCACCIO		.22	1.70	5.41	2.48	1.60	2.50	.05	5.18	2.63	.20	2.43	24.40
CANARY RF			.62	23.38	5.58	27.14	8.09	17.03	8.02	10.49	20.32	37.95	158.62
REDSTR. RF						.95			.01			1.23	2.19
ROUGHEYE RF									.02				.02
SIL'GRAY RF		.43	8.70	122.31	48.27	21.36	11.81	37.41	83.61	20.67	30.63	40.26	425.46
YEL'MOUTH R					.52	162.91	.81		.24		14.92		179.40
YEL'TAIL RF		.16	.21	3.29	.58	2.46		1.10	1.28		23.51	50.98	83.57
WIDOW RF						.47							.47
OTHER RF		1.79			29.35	9.80	4.78	.54	22.35		2.24	2.05	72.90
HAKE													
OCTOPUS				.02	.04	.10	.11	.03	.03				.33
PERCH													
SKATE		.09		1.95	2.09	4.26	1.62	1.19	1.12	.34			12.66
SQUID													
STURGEON				.03	.72	.05							.80
MISC. SP.													
DOGFISH		12.24			1.39								13.63
REDUCTION				.49	3.63	7.67			.48		16.75	4.62	33.64
ANIMALFOOD													
TOTAL		40.76	15.04	278.06	194.19	603.06	270.92	156.82	311.67	59.57	124.78	163.87	2218.74
CRAB													
DUMPED FISH						13.77	5.44						19.21
DISCARDS				2.72	13.35	127.68	8.16	15.06	3.18	1.36	3.28	16.33	191.12

TABLE 27. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 25.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.15			.89	1.52		.65			.18		3.39
ROCK SOLE			7.44		.20			.02					7.66
PETRALE S.		9.75	10.77		2.91			3.93			.36		27.72
DOVER SOLE	.10	4.71	2.74	5.04	3.19			.43			.04		16.25
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD					8.67			1.05			.43		10.15
LINGCOD					14.67	3.03		9.28			.12	.61	27.71
SABLEFISH	.14	1.29	.65	.37							1.29		3.74
POLLOCK		.03											.03
OCEAN PERCH	4.53	22.28	5.70	4.03	2.35						73.85		112.74
BOCACCIO								.10					.10
CANARY RF				1.37		.11							1.48
REDSTR. RF													
ROUGHEYE RF		2.91	.03								.26		3.20
SIL'GRAY RF				5.01				.34					5.35
YEL'MOUTH R			.04								.52		.56
YEL'TAIL RF				.68							1.20		1.88
WIDOW RF													
OTHER RF		2.60	.24		12.98			.27			10.64	7.70	34.43
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON						.01							.01
MISC. SP.													
DOGFISH						1.94							1.94
REDUCTION		.16		1.39	.15						1.78		3.48
ANIMALFOOD													
TOTAL	4.77	43.88	27.61	17.89	46.01	6.61		16.07			90.67	8.31	261.82
CRAB													
DUMPED FISH													
DISCARDS				.91		2.27							3.18

TABLE 28. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 26.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE		.15			.30	.27		.20					.92
PETRALE S.													
DOVER SOLE								.04					.04
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD													
LINGCOD					.21	.09		.28					.58
SABLEFISH													
POLLOCK													
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF													
HAKE													
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON		.17											.17
MISC. SP.													
DOGFISH		1.28											1.28
REDUCTION													
ANIMALFOOD													
TOTAL		1.60			.51	.36		.52					2.99
CRAB													
DUMPED FISH													
DISCARDS						3.63		2.72					6.35

TABLE 29. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 27.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.					.22	.78							1.00
ROCK SOLE		.67			1.50	3.37				.57			6.11
PETRALE S.					1.37	.13		.19	.12	.12	.19		2.12
DOVER SOLE						1.67	.38		4.23	.27	1.12		7.67
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.				.53	9.99								10.52
PACIFIC COD		5.25		.74	15.24	2.12	.69	.23	1.46	.94			26.67
LINGCOD				.59	3.76	1.66	2.77	1.00	3.13	4.69	2.67		20.27
SABLEFISH									3.39	.20			3.59
POLLOCK													
OCEAN PERCH					.13								.13
BOCACCIO		1.27		.19	1.89				2.82	.51	3.00		9.68
CANARY RF		1.39		91.96	3.46	26.00	2.95	9.81	18.84	16.48	22.21	20.39	213.49
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF				.95		.22		5.39	49.06	4.28	34.22	26.15	120.27
YEL'MOUTH R											1.20		10.69
YEL'TAIL RF				4.67	3.74	1.08							1.88
WIDOW RF				.48	1.40								.98
OTHER RF					.98								
HAKE													
OCTOPUS				.01					.02			.02	.05
PERCH													
SKATE				.04					.67		.06	.05	.82
SQUID													.49
STURGEON					.49								
MISC. SP.													
DOGFISH		3.14			13.34	3.55							20.03
REDUCTION													
ANIMALFOOD													
TOTAL		11.72		100.16	57.51	40.58	6.79	16.62	83.74	28.06	64.67	46.61	456.46
CRAB													
DUMPED FISH													
DISCARDS				63.50	.23	6.80	2.04	.91	30.84	3.86		2.68	110.86

TABLE 30. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 21.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		.05		1.16	6.08	5.66	1.24		.18		3.95		18.32
ROCK SOLE		.73	.18	1.28	1.29	3.41	.36		.41		1.60		9.26
PETRALE S.				.06	3.39	3.95	9.23	2.13	4.99		1.21		24.96
DOVER SOLE				.24		4.49		.38	1.07		.92		7.10
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT		.05			3.91	27.69	.03		5.79		.09		37.56
STAR.FLDR									.38		.01		.39
OTHER FLAT.		.79			5.98	.52	1.05		1.97				10.31
PACIFIC COD		4.29	.45	2.78	94.79	57.59	38.88	8.10	1.79		10.25		218.92
LINGCOD					4.16	9.65	20.55	5.18	12.09		.48		52.11
SABLEFISH					6.77	22.03	2.64		1.41		3.98		36.83
POLLOCK						1.11					2.70		3.81
OCEAN PERCH													
BOCACCIO													
CANARY RF						1.74		1.77					3.51
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF						.19							.19
YEL'MOUTH R													
YEL'TAIL RF						1.30		.26			.80		2.36
WIDOW RF													
OTHER RF		.10		.02	.80	.02	.90		2.85				4.69
HAKE													
OCTOPUS					.01						.01		.02
PERCH													
SKATE				.05	.05	.18	.57		.02		.37		1.24
SQUID													
STURGEON					.07	.06							.13
MISC. SP.													
DOGFISH		1.79	1.36	5.25	18.14	3.00							29.54
REDUCTION													
ANIMALFOOD													
TOTAL		7.80	1.99	10.84	145.44	142.59	75.45	17.82	32.95		26.37		461.25
CRAB					.04								.04
DUMPED FISH													
DISCARDS				1.81	23.77	132.22	8.39	97.07	2.72	27.22	10.89		304.09

TABLE 31. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 23.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.		1.57	.66	1.11	7.52	5.47	6.07	1.18	4.76	4.30	.47		33.11
ROCK SOLE		12.38	8.43	6.79	2.34	4.22	11.48	3.45	2.19	.71			51.99
PETRALE S.	3.38	9.57	4.14	7.59	15.47	18.78	21.69	12.86	15.83	7.45	.46	.74	117.96
DOVER SOLE		24.29	21.53	21.90	18.80	7.78	1.57	8.64	6.05	.05	1.16		111.77
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT		.06				3.04	12.66	4.95	6.26	3.05			30.02
STAR.FLDR		.01		1.33	1.17	1.63							4.14
OTHER FLAT.		7.44	1.49	9.89	3.84	6.40	6.01		6.63	4.53			46.23
PACIFIC COD		285.30	287.44	72.36	49.97	17.16	19.17	12.50	36.44	28.93	.16		809.43
LINGCOD				5.69	72.29	297.06	457.17	195.00	152.53	61.23	3.52		1244.49
SABLEFISH		.39		.04	1.22	8.70	33.99	5.31	17.25	33.77	3.09		103.76
POLLOCK		5.68			.01								5.69
OCEAN PERCH	15.80	50.62	27.50	11.06	42.61	.03			.02		33.78	25.68	207.10
BOCACCIO		.04			.61					.19			.84
CANARY RF		.85			.60	1.31	.94	1.80		1.91			7.41
REDSTR. RF	.04	.06											.10
ROUGHEYE RF	.36	.09	.16								.26		.87
SIL'GRAY RF						.39	.29		.28	.30			1.26
YEL'MOUTH R	.73	1.37	.20									1.92	4.22
YEL'TAIL RF		2.02			79.75	22.69	.45	.33					105.24
WIDOW RF													
OTHER RF	1.43	1.89	1.15	1.64	4.26	2.57	4.14	1.16	4.24	.46	2.99	3.21	29.14
HAKE								1.36					1.36
OCTOPUS			.10	.07	.01		.02	.02	.02	.02			.26
PERCH													
SKATE		1.04	.65	2.47	1.55	1.08	.60	1.17	.45	.76			9.77
SQUID													
STURGEON		.13	.14	.11	.24	.17							.79
MISC. SP.													
DOGFISH		192.65	7.71	339.05	85.92	117.33	53.85	17.05	10.93	43.60			868.09
REDUCTION		5.51	.45	.06	16.24		.38		.61	.97	.55	.36	25.13
ANIMALFOOD													
TOTAL	21.74	602.96	361.75	481.16	404.42	515.81	630.48	266.78	264.49	192.23	46.44	31.91	3820.17
CRAB													
DUMPED FISH													
DISCARDS		19.50	1.13	52.16	62.60	53.98	34.02	197.63	78.47	20.41			519.90

TABLE 32. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 24.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.27	.48		.08	.06			4.74	1.92		.10	.17	7.82
ROCK SOLE		7.64		2.95	1.39		.26	1.19	3.65				17.08
PETRALE S.	9.24	.41		36.99	.42	.45	.27	12.13	25.93	.03	3.49		89.36
DOVER SOLE	8.44			13.73	14.91		1.72		1.61		4.67	.04	45.12
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR		2.22		3.42	3.10	.07		1.58	6.42				8.00
OTHER FLAT.		.45			.15	2.42	.04	.13	.25		1.39	.22	10.67
									.80		8.55		12.54
PACIFIC COD		46.30		.89	.80	.32	1.02	2.61	1.20		4.36	.21	57.71
LINGCOD				.14	6.39	6.68	11.34	69.20	116.35		3.09		213.19
SABLEFISH	.27			2.32	.38			.01	.28		1.89	.16	5.31
POLLOCK													
OCEAN PERCH	12.65	.43	1.67	8.70	19.48			9.98			129.47	5.77	188.15
BOCACCIO					.48				.24				.72
CANARY RF				2.84	.24			64.81	22.55	.05			90.49
REDSTR. RF	2.44												2.44
ROUGHEYE RF	.22		.01										.49
SIL'GRAY RF				.45					.93		.26		1.40
YEL'MOUTH R	.44												2.12
YEL'TAIL RF	2.59			.89	.36			3.15			1.04	.64	7.18
WIDOW RF												.19	
OTHER RF	1.03	1.84	.07	.81	1.30	.55	1.99	39.48	6.52		20.92	4.93	79.44
HAKE													
OCTOPUS		.03						.18					.18
PERCH									.02				.05
SKATE		.89		.48	.02			.05	.09		.11	.04	1.66
SQUID		.02		.01	.24							.06	.33
STURGEON													
MISC. SP.													
DOGFISH		5.66		21.92	1.45	20.04		.09					49.16
REDUCTION	8.26			2.87	2.02				.05		9.30		22.50
ANIMALFOOD													
TOTAL	45.85	66.37	1.75	99.49	53.19	30.53	16.64	209.33	188.83	.08	188.64	12.43	913.13
CRAB													
DUMPED FISH													
DISCARDS	5.44			45.36				59.33	6.35				116.48

TABLE 33. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 12.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.											.87		.87
ROCK SOLE	.07			.75									.82
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE				.31									.31
TURBOT													
STAR.FLDR	.08	1.10									1.92		3.10
OTHER FLAT.		1.28											1.28
PACIFIC COD	1.01	.36									1.98		3.35
LINGCOD													
SABLEFISH													
POLLOCK													
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF													
HAKE													
OCTOPUS													
PERCH													
SKATE				.18							.19		.37
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL	1.16	2.74		1.24							4.96		10.10
CRAB													
DUMPED FISH													
DISCARDS													

TABLE 34. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 13.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.18												.18
ROCK SOLE				.43									.43
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE				.42									.42
TURBOT													
STAR.FLDR	1.64												1.64
OTHER FLAT.	.85												.85
PACIFIC COD	6.37				.29						1.55	15.02	23.23
LINGCOD													
SABLEFISH													
POLLOCK													
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF	.01										.06	.02	.09
HAKE													
OCTOPUS													
PERCH													
SKATE				.18									.18
SQUID													
STURGEON													
MISC. SP.													
DOGFISH	5.23										64.02	24.43	93.68
REDUCTION													
ANIMALFOOD													
TOTAL	14.28			1.03	.29						65.63	39.47	120.70
CRAB													
DUMPED FISH													
DISCARDS	1.22												1.22

TABLE 35. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 14.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.58	1.76					.10				3.04	.30	5.78
ROCK SOLE	.90	2.53	.72								.90	.14	5.19
PETRALE S.						.03	.03				.04		.10
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR	.22	1.70									.45	.10	2.47
OTHER FLAT.	.89	4.93	1.84			.07	.31			.18	3.90	.34	12.46
PACIFIC COD	13.16	18.00	8.61		.03	5.89	4.89	1.66		2.89	9.00	1.01	65.14
LINGCOD						.02	.07			.02	.20		.31
SABLEFISH						.07	.07						.14
POLLOCK													
OCEAN PERCH													
BOCACCIO													
CANARY RF							.01						.01
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R	.77												.77
YEL'TAIL RF													
WIDOW RF													
OTHER RF	.87	.59	.22				.14				.18	.06	2.06
HAKE													
OCTOPUS	.02	.02	.04		.01		.01						.10
PERCH	.11	.04								.01	.16	.03	.35
SKATE	.07	.49	.01			.01	.05				.50	.03	1.16
SQUID													
STURGEON													
MISC. SP.													
DOGFISH	4.24					2.49	28.85	7.77		2.57	43.68	.66	90.28
REDUCTION													
ANIMALFOOD													
TOTAL	21.83	30.06	11.44		.04	8.58	34.53	9.43		5.67	62.05	2.65	186.32
CRAB													
DUMPED FISH													
DISCARDS	1.72	2.27	4.54		2.72			5.90					17.15

TABLE 36. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 15.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE													
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.													
PACIFIC COD													
LINGCOD													
SABLEFISH													
POLLOCK		3.83											3.83
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF													
HAKE		35.27											35.27
OCTOPUS													
PERCH													
SKATE													
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL		39.10											39.10
CRAB													
DUMPED FISH													
DISCARDS													

TABLE 37. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 16.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.													
ROCK SOLE													
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.												.15	.15
PACIFIC COD												.17	.17
LINGCOD													
SABLEFISH													
POLLOCK	.40	11.04											11.44
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF												.07	.07
HAKE	149.53	123.29									82.80		355.62
OCTOPUS													
PERCH												.06	.06
SKATE													
SQUID													
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL	149.93	134.33									82.80	.45	367.51
CRAB													
DUMPED FISH													
DISCARDS	.18	.36									.42		.96

TABLE 38. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 17.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.05					.23	.03	.26				1.17	1.74
ROCK SOLE						.04	.02	.01					.07
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR				.06						.14	.05	.72	.97
OTHER FLAT.	3.97		.07	1.23	.08	.89	.34	.32	.15	.35	1.69	4.73	13.82
PACIFIC COD	11.95	.16	8.77	.66	.13	.12	1.22	.08	.19	.96	.97	1.15	26.36
LINGCOD						3.80	.35	.04	.50		.02	2.26	6.97
SABLEFISH													
POLLOCK		1.04					.24						1.28
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF	.05		.02		.04	.15	.49	.15	.31	2.45	.54	.99	5.19
HAKE	13.87	34.49		673.12	848.78	405.06	33.57		195.08	172.37	44.02		2420.36
OCTOPUS													
PERCH	.02		.46	.48							.07	.08	1.11
SKATE	.07			.07	.04		.02					.13	.33
SQUID													
STURGEON													
MISC. SP.													
DOGFISH	1.70			.40			1.84				6.46	2.22	12.62
REDUCTION						.05	.45	.18					.68
ANIMALFOOD													
TOTAL	31.68	35.69	9.32	676.02	849.07	410.34	38.57	1.04	196.23	176.27	53.82	13.45	2491.50
CRAB													
DUMPED FISH													
DISCARDS	2.31			1.89									4.20

TABLE 39. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 18.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.36	.37	1.07	.49	.26	.32	.61	.02	.13	.31	.56	.15	4.65
ROCK SOLE		.18										.04	.22
PETRALE S.													
DOVER SOLE	.15		.09	.05	.05	.20							.54
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT					.02	.03	.08						.13
STAR.FLDR	.03	.30	.28	.36			.04	.34		.02	.16	.02	1.55
OTHER FLAT.	5.21	4.90	3.97	3.17	1.82	.71	.87	3.96	3.44	6.87	7.67	2.44	45.03
PACIFIC COD	12.05	19.09	27.25	21.76	12.76	1.87	3.79	1.33	3.71	6.89	8.46	6.95	125.91
LINGCOD				.29	1.24	.37	.25	.42	.75	3.34	1.19		7.85
SABLEFISH			.01				.06	.12			.01		.20
POLLOCK		2.79	57.84	.08	.05			.03	.03	.01	.08	.03	60.94
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF	1.09	1.34	1.41	.99	.47	.53	.25	.62	.40	.92	.95	.68	9.65
HAKE		.05	.02		.04	.05		.13	.09	.07	.10		.55
OCTOPUS	.06	.11	.05	.03								.03	.28
PERCH	.02	.02	.14	.28	.06						.04		.56
SKATE	.18	.57	.76	.54	.27	.17	.12	.17	.24	.27	.70	.13	4.12
SQUID													
STURGEON													
MISC. SP.													
DOGFISH	.44	13.72	2.76		3.68	1.22	13.22	20.05	37.31	.91	2.44		95.75
REDUCTION													
ANIMALFOOD													
TOTAL	19.59	43.44	95.65	28.04	20.72	5.47	19.29	27.19	46.10	19.61	22.36	10.47	357.93
CRAB	.24	.05	.39	.06	.11						.05		.90
DUMPED FISH													
DISCARDS		.09	3.63										3.72

TABLE 40. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 19.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	2.49		1.23		.13						.07		3.92
ROCK SOLE	.15	.03	.20		.39						.02	.29	1.08
PETRALE S.	.01				.23	.30				.20			.74
DOVER SOLE					7.00	2.70							9.70
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT	.28	.32	.56	.30	1.21	.01	.12	1.85	.04	3.07	.65	.09	8.50
STAR.FLDR			.06										.06
OTHER FLAT.	1.22	.13	2.28	.62	2.84	.81	.16	.63	.34	11.68	1.74	1.16	23.61
PACIFIC COD	207.31	18.51	77.88	50.39	37.73	5.76	8.39	13.69	8.89	7.31	89.78	92.12	617.76
LINGCOD			.03	.31	8.61	13.07	1.90	3.43	.16	2.08	4.39		33.98
SABLEFISH	.17	.01				.01	.03			.19	.42	.07	.90
POLLOCK	5.96	.36				.01				.62	.07	.18	7.20
OCEAN PERCH													
BOCACCIO													
CANARY RF	.09												
REDSTR. RF											.06	.02	.17
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF	1.08												
WIDOW RF												.03	1.11
OTHER RF	.81	.04	1.99	.05	1.17	.43	.01		.03	.08	5.01	.55	10.17
HAKE													
OCTOPUS	.08		.02	.03	.02								
PERCH									.01	.04	.09	.03	.32
SKATE	.43	.03	.43	.11	.70	.08	.04	.17		.36	.71	.64	3.70
SQUID	.01										.01	.02	.03
STURGEON			.03										.01
MISC. SP.													.03
DOGFISH	55.28	9.07	6.46		2.78	12.93					7.26	14.01	107.79
REDUCTION						2.29							2.29
ANIMALFOOD													
TOTAL	275.37	28.50	91.17	51.81	62.81	38.40	10.65	19.77	9.47	25.63	110.28	109.21	833.07
CRAB													
DUMPED FISH											.07	.16	.23
DISCARDS	8.35	.68	.14		.93	1.36							11.46

TABLE 41. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 20.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.	.16	1.34	.93	.10	1.66	1.26	3.74	4.36	3.82	2.17	9.15	.19	28.88
ROCK SOLE		1.74	.02		1.74	.03	1.17			.02	3.03		7.75
PETRALE S.						.70	.50		1.29	1.15	.33		3.97
DOVER SOLE					8.73	25.95	36.84	46.56	21.00	6.75	7.74		153.57
REX SOLE							.22				.20		.42
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT					.85	.43	.33	3.12	2.61	.65	.23		8.22
STAR.FLDR													
OTHER FLAT.		.37	2.26	2.51	6.20	3.83	1.36	1.85	4.97	2.98	.12	3.15	29.60
PACIFIC COD	.76	10.60	34.79	5.01	8.49	17.23	14.11	7.85	3.58	3.86	33.68	8.88	148.84
LINGCOD				.06	2.78	10.16	6.36	1.90	6.83	1.37	1.01		30.47
SABLEFISH					1.08	.49	1.59	.22	.35	.30	.26	.01	4.30
POLLOCK	.64	.17			.11		.88	1.26	1.23	2.17	4.14		10.60
OCEAN PERCH						5.25	.65						5.90
BOCACCIO													
CANARY RF						.32		.01			.01		.34
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF						.08							.08
YEL'MOUTH R													
YEL'TAIL RF	4.49			.03	.53		.49	.53			.05		6.12
WIDOW RF													
OTHER RF		.03	.21	.18	.19	.53	1.40	.77	1.07	1.06	.84	.47	6.75
HAKE								.45					.45
OCTOPUS					.01	.01		.02		.02	.17	.02	.25
PERCH													
SKATE		.08	.23	.09	.45	.53	.14	.12	.42	.28	.86	.35	3.55
SQUID													
STURGEON					.70	.05							.75
MISC. SP.													
DOGFISH		1.19			2.48			10.89			2.72		17.28
REDUCTION													
ANIMALFOOD													
TOTAL	6.05	15.52	38.44	7.98	36.00	66.85	69.78	79.91	47.17	22.78	64.54	13.07	468.09
CRAB					.09						.19	.83	1.11
DUMPED FISH													
DISCARDS			.23		6.71	5.90	4.31	13.15	4.31	3.67	7.82		46.10

TABLE 42. 1982 BRITISH COLUMBIA TRAWL LANDINGS (T) OF GROUNDFISH FROM STATISTICAL AREA 29.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ENGLISH S.					.13								.13
ROCK SOLE													
PETRALE S.													
DOVER SOLE													
REX SOLE													
BUTTER SOLE													
FLATHEAD S.													
SAND SOLE													
TURBOT													
STAR.FLDR													
OTHER FLAT.											.03		.03
PACIFIC COD					.01						.24	.05	.30
LINGCOD											.03		.03
SABLEFISH													
POLLOCK		4.76					.05						4.81
OCEAN PERCH													
BOCACCIO													
CANARY RF													
REDSTR. RF													
ROUGHEYE RF													
SIL'GRAY RF													
YEL'MOUTH R													
YEL'TAIL RF													
WIDOW RF													
OTHER RF											.17	.02	.19
HAKE		1.59					9.98						11.57
OCTOPUS													
PERCH													
SKATE													
SQUID											.03		.03
STURGEON													
MISC. SP.													
DOGFISH													
REDUCTION													
ANIMALFOOD													
TOTAL		6.35			.14		10.03				.50	.07	17.09
CRAB													
DUMPED FISH					.01								.01
DISCARDS													

OTHER GROUNDFISH FISHERIES

Groundfish landings in this category are those caught by longline, trap, handline, troll, and shrimp trawl. In 1982, these landings totalled 6,334 t, a 19% increase from the 1981 total. Sablefish accounted for 59% of the catch by other gear, with the landings of 3,728 t, 2% above those of the previous year. Dogfish landings at 857 t increased 67% from the 1981 level. Catches by main species, gear type, and major area are presented in Table 43.

No effort data are available for handline, troll, shrimp trawl, or incidental to halibut longline. The catches for these gears were obtained from sales slips and the report, British Columbia Catch Statistics, 1982, Fisheries and Oceans, Fisheries Management, Pacific Region.

Interviews were conducted with skippers of longline and trap vessels to obtain catch and effort data. In the longline fishery, 42% (by weight) of the total catch (1,212 t) was covered by these interviews. Table 44 shows the total landings and monitored effort together with the monitored landings and CPUE by major area and month. The target species for the longline fishery were dogfish (857 t) and sablefish (272 t). The dogfish fishery was centered in the Strait of Georgia (Area 4B) with 98% (839 t) caught in this area. The longline sablefish fishery took place mainly off the northwest coast of Vancouver Island (Area 3D) with 59% of the catch. Tables 45-52 show the main species landed by major area and month. Longline landings by minor area in 1982 are given in Table 53.

Total trap landings in 1982 were 3,438 t, slightly above (5%) of the 1981 level. Seventy-six percent (by weight) of the trap landings were covered by interviews. Table 54 shows monitored landings, effort and CPUE and total landings by major area and month. Sablefish landings of 3,438 t accounted for all of the trap catch. The main areas of production were north Queen Charlotte Sound (Area 5B) and the west coast of Queen Charlotte Islands (Area 5E); each area accounted for approximately 29% of the catch. Trap landings of groundfish in 1982 by major area, month and main species are presented in Tables 55-62. A breakdown of the trap landings by species and minor area are given in Table 63.

Table 43. British Columbia landings (t, round weight) of groundfish caught by gear other than trawl in 1982 by major area and species.

Gear and Species	Major Area 4B	3C	3D	5A	5B	5C	5D	5E	Total
Handline and troll									
Lingcod	535.26	298.65	231.90	33.48	18.60	22.01	40.86	23.69	1,204.45
Pacific cod	4.90	0.01	-	1.53	-	0.49	3.70	0.13	10.76
Rockfish	254.98	34.32	23.06	7.12	2.78	0.75	4.33	4.99	332.33
Longline									
Dogfish	838.97	-	3.37	10.89	-	3.38	-	-	856.61
Lingcod	6.71	-	3.99	5.48	0.85	0.83	4.97	3.47	26.30
Pacific cod	0.99	-	-	0.50	0.81	-	1.30	0.04	3.64
Rockfish	35.17	0.27	5.69	2.30	0.08	3.06	3.31	2.03	51.91
Sablefish	-	-	161.89	0.87	-	1.01	79.26	29.09	272.12
Misc. species	0.70	0.01	-	0.04	-	0.11	0.21	-	1.07
Trap									
Lingcod	-	0.01	-	-	-	-	-	0.21	0.22
Sablefish	4.95	439.41	473.90	448.10	1,020.52	50.53	14.94	985.49	3,437.84
Shrimp trawl									
Pacific cod	0.05	-	-	-	-	-	-	-	0.05
Rockfish	0.14	-	-	-	-	-	-	-	0.14
Misc. species	0.03	-	-	-	-	-	-	-	0.03
Incidental to Halibut longline									
Lingcod	5.20	3.81	2.89	7.65	3.39	17.88	8.42	3.06	52.30
Pacific cod	0.01	0.25	-	-	-	0.12	0.90	-	1.28
Rockfish	2.70	4.69	6.68	12.19	2.13	18.34	12.19	5.04	63.96
Sablefish	0.35	1.21	0.36	0.59	0.82	3.38	10.58	1.10	18.39
Misc. species	0.02	-	0.04	0.11	-	0.35	0.11	-	0.63
Total	1,691.13	782.64	913.77	530.85	1,049.98	122.24	185.08	1,058.34	6,334.03

Table 44. Total landings (t), monitored landings (t), and monitored effort (hooks x 1,000) for the British Columbia longline fleet in 1982 (excludes halibut).

Month	Major Area 4B				Major Area 3C				Major Area 3D			
	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)
January	128.18	117.42	175.77	0.668	-	-	-	-	-	-	-	-
February	138.67	120.41	191.60	0.628	-	-	-	-	-	-	-	-
March	53.20	42.98	87.96	0.489	-	-	-	-	-	-	-	-
April	41.53	3.43	9.73	0.353	-	-	-	-	10.00	-	-	-
May	19.24	9.09	12.05	0.754	-	-	-	-	-	-	-	-
June	15.00	2.98	5.60	0.532	-	-	-	-	46.50	-	-	-
July	9.19	-	-	-	-	-	-	-	5.60	-	-	-
August	-	-	-	-	-	-	-	-	112.61	-	-	-
September	4.45	-	-	-	0.06	-	-	-	0.23	-	-	-
October	78.38	11.91	15.70	0.759	0.04	-	-	-	-	-	-	-
November	254.48	77.78	78.90	0.986	-	-	-	-	-	-	-	-
December	140.22	47.16	57.22	0.824	0.18	-	-	-	-	-	-	-
Total	882.54	433.16	634.53	0.683	0.28	-	-	-	174.94	-	-	-

Table 44 (cont'd)

Month	Major Area 5A				5B				5C			
	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)
January	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-
June	0.31	-	-	-	-	-	-	-	2.74	-	-	-
July	3.96	-	-	-	0.15	-	-	-	2.27	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-
September	1.59	-	-	-	0.12	-	-	-	-	-	-	-
October	-	-	-	-	1.47	-	-	-	-	-	-	-
November	3.33	-	-	-	-	-	-	-	-	-	-	-
December	10.89	-	-	-	-	-	-	-	3.38	-	-	-
Total	20.08	-	-	-	1.74	-	-	-	8.39	-	-	-

Table 44 (cont'd)

Month	Major Area 50				5E				Total			
	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)	Total landings (t)	Monitored landings (t)	Monitored effort (hooks x 1000)	Monitored CPUE (t/1000 hooks)
January	-	-	-	-	-	-	-	-	128.18	117.42	175.77	0.668
February	-	-	-	-	-	-	-	-	138.67	120.41	191.60	0.628
March	-	-	-	-	-	-	-	-	53.20	42.98	87.96	0.489
April	-	-	-	-	3.41	-	-	-	54.94	3.43	9.73	0.353
May	7.45	6.05	47.67	0.127	1.66	0.74	7.80	0.095	31.09	15.88	67.52	0.235
June	21.75	17.10	22.30	0.767	3.50	2.65	3.70	0.716	89.48	22.73	31.60	0.719
July	12.63	12.64	58.00	0.218	10.35	9.73	50.40	0.193	41.73	22.37	108.40	0.206
August	10.07	10.07	46.76	0.215	15.71	15.67	49.36	0.317	138.51	25.74	96.12	0.268
September	36.96	-	-	-	-	-	-	-	44.76	-	-	-
October	0.19	-	-	-	-	-	-	-	78.61	11.91	15.70	0.759
November	-	-	-	-	-	-	-	-	257.81	77.78	78.90	0.986
December	-	-	-	-	-	-	-	-	154.67	47.16	57.22	0.824
Total	89.05	45.86	174.73	0.262	34.63	28.79	111.26	0.259	1,211.65	507.81	920.52	0.552

Table 45. 1982 British Columbia longline landings (t) of groundfish--International Area 4B, Strait of Georgia.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	120.73	132.85	48.00	37.82	14.54	14.92	6.05	-	-	74.79	252.33	136.94	838.97
Lingcod	-	-	-	0.31	2.87	0.03	0.58	-	0.98	1.67	0.27	-	6.71
Pacific cod	0.02	-	0.57	-	0.05	-	-	-	0.11	-	0.05	0.19	0.99
Rockfish	7.38	5.79	4.49	3.11	1.75	0.05	2.45	-	3.56	1.92	1.82	3.05	35.17
Sablefish	-	-	-	-	-	-	-	-	-	-	-	-	-
Misc. species	0.05	0.03	0.14	0.29	0.03	-	0.11	-	-	-	0.01	0.04	0.70
Total	128.18	138.67	53.20	41.53	19.24	15.00	9.19	-	4.45	78.38	254.48	140.22	882.54

Table 46. 1982 British Columbia longline landings (t) of groundfish--International Area 3C, southwest coast of Vancouver Island.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	-	-	-	-	-	-	-	-	-	-
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Pacific cod	-	-	-	-	-	-	-	-	-	-	-	-	-
Rockfish	-	-	-	-	-	-	-	-	0.05	0.04	-	0.18	0.27
Sablefish	-	-	-	-	-	-	-	-	-	-	-	-	-
Misc. species	-	-	-	-	-	-	-	-	0.01	-	-	-	0.01
Total	-	-	-	-	-	-	-	-	0.06	0.04	-	0.18	0.28

Table 47. 1982 British Columbia longline landings (t) of groundfish--International Area 3D, northwest coast of Vancouver Island.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	3.37	-	-	-	-	-	-	-	-	3.37
Lingcod	-	-	-	3.13	-	-	-	0.86	-	-	-	-	3.99
Pacific cod	-	-	-	-	-	-	-	-	-	-	-	-	-
Rockfish	-	-	-	3.50	-	-	0.60	1.36	0.23	-	-	-	5.69
Sablefish	-	-	-	-	-	46.50	5.00	110.39	-	-	-	-	161.89
Misc. species	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	10.00	-	46.50	5.60	112.61	0.23	-	-	-	174.94

Table 48. 1982 British Columbia longline landings (t) of groundfish--International Area 5A, south Queen Charlotte Sound.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	-	-	-	-	-	-	-	-	10.89	10.89
Lingcod	-	-	-	-	-	0.27	1.07	-	0.81	-	3.33	-	5.48
Pacific cod	-	-	-	-	-	-	-	-	0.50	-	-	-	0.50
Rockfish	-	-	-	-	-	-	2.02	-	0.28	-	-	-	2.30
Sablefish	-	-	-	-	-	0.04	0.83	-	-	-	-	-	0.87
Misc. species	-	-	-	-	-	-	0.04	-	-	-	-	-	0.04
Total	-	-	-	-	-	0.31	3.96	-	1.59	-	3.33	10.89	20.08

Table 49. 1982 British Columbia longline landings (t) of groundfish--International Area 5B, north Queen Charlotte Sound.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	-	-	-	-	-	-	-	-	-	-
Lingcod	-	-	-	-	-	0.15	-	0.12	0.58	-	-	-	0.85
Pacific cod	-	-	-	-	-	-	-	-	0.81	-	-	-	0.81
Rockfish	-	-	-	-	-	-	-	-	0.08	-	-	-	0.08
Sablefish	-	-	-	-	-	-	-	-	-	-	-	-	-
Misc. species	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	0.15	-	0.12	1.47	-	-	-	1.74

Table 50. 1982 British Columbia longline landings (t) of groundfish--International Area 5C, south Hecate Strait.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	-	-	-	-	-	-	-	-	3.38	3.38
Lingcod	-	-	-	-	0.79	0.04	-	-	-	-	-	-	0.83
Pacific cod	-	-	-	-	-	-	-	-	-	-	-	-	-
Rockfish	-	-	-	-	1.81	1.25	-	-	-	-	-	-	3.06
Sablefish	-	-	-	-	0.14	0.87	-	-	-	-	-	-	1.01
Misc. species	-	-	-	-	-	0.11	-	-	-	-	-	-	0.11
Total	-	-	-	-	2.74	2.27	-	-	-	-	-	3.38	8.39

Table 51. 1982 British Columbia longline landings (t) of groundfish--International Area 5D, north Hecate Strait.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	-	-	-	-	-	-	-	-	-	-
Lingcod	-	-	-	-	0.77	3.97	0.01	-	0.22	-	-	-	4.97
Pacific cod	-	-	-	-	0.16	0.03	0.05	-	1.06	-	-	-	1.30
Rockfish	-	-	-	-	0.42	0.65	-	-	2.05	0.19	-	-	3.31
Sablefish	-	-	-	-	5.89	17.10	12.57	10.07	33.63	-	-	-	79.26
Misc. species	-	-	-	-	0.21	-	-	-	-	-	-	-	0.21
Total	-	-	-	-	7.45	21.75	12.63	10.07	36.96	0.19	-	-	89.05

Table 52. 1982 British Columbia longline landings (t) of groundfish--International Area 5E, west coast of Queen Charlotte Islands.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Dogfish	-	-	-	-	-	-	-	-	-	-	-	-	-
Lingcod	-	-	-	2.65	0.19	0.31	0.32	-	-	-	-	-	3.47
Pacific cod	-	-	-	-	-	-	-	0.04	-	-	-	-	0.04
Rockfish	-	-	-	0.48	0.71	0.54	0.30	-	-	-	-	-	2.03
Sablefish	-	-	-	0.28	0.76	2.65	9.73	15.67	-	-	-	-	29.09
Misc. species	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	3.41	1.66	3.50	10.35	15.71	-	-	-	-	34.63

Table 53. British Columbia longline landings (t) by species by minor area in 1982.

Species	Minor Area													
	1W	2AW	2BW	1E	4	5up	2BE	5lo	8	9	11	26	27	21
Dogfish	-	-	-	-	-	-	-	3.38	-	-	10.89	-	3.37	-
Lingcod	-	3.16	0.31	4.20	0.77	-	0.83	-	0.85	-	5.48	0.71	3.28	-
Pacific cod	0.04	-	-	1.30	-	-	-	-	0.81	-	0.50	-	-	-
Rockfish	-	1.49	0.54	2.67	0.42	0.22	3.06	-	0.08	0.39	1.91	0.21	5.48	0.23
Sablefish	28.79	0.30	-	79.26	-	-	1.01	-	-	-	0.87	-	161.89	-
Misc. species	-	-	-	-	0.21	-	0.11	-	-	-	0.04	-	-	0.01
Total	28.83	4.95	0.85	87.43	1.40	0.22	5.01	3.38	1.74	0.39	19.69	0.92	174.02	0.24

Species	Minor Area											
	23	12	13	14	15	16	17	18	19	28	29	Total
Dogfish	-	15.92	47.86	59.45	36.49	283.36	167.40	43.81	7.17	21.99	155.52	856.61
Lingcod	-	1.90	-	0.13	2.65	-	0.20	0.99	0.79	0.05	-	26.30
Pacific cod	-	-	-	0.02	0.19	-	0.18	0.55	-	0.05	-	3.64
Rockfish	0.04	3.39	4.80	5.17	2.98	5.05	2.78	8.92	-	0.33	1.75	51.91
Sablefish	-	-	-	-	-	-	-	-	-	-	-	272.12
Misc. species	-	0.20	-	0.02	0.27	-	0.01	0.20	-	-	-	1.07
Total	0.04	21.41	52.66	64.79	42.58	288.41	170.57	54.47	7.96	22.42	157.27	1,211.65

Table 54. Total landings (t), monitored landings (t), and monitored effort (traps) for the British Columbia trap fleet in 1982.

	Major Area											
	4B				3C				3D			
Month	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)
January	-	-	-	-	-	-	-	-	8.14	8.14	480	0.017
February	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	84.29	84.29	6,685	0.013	23.75	23.75	1,210	0.020
April	-	-	-	-	14.11	14.11	1,575	0.009	91.74	21.36	2,025	0.011
May	-	-	-	-	65.60	38.18	2,475	0.015	62.63	11.69	880	0.013
June	4.95	-	-	-	146.08	79.50	6,705	0.012	139.04	82.86	8,640	0.010
July	-	-	-	-	51.14	46.67	3,240	0.014	73.92	-	-	-
August	-	-	-	-	78.20	31.70	4,050	0.008	64.92	64.92	4,395	0.015
September	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	9.76	9.76	1,200	0.008
December	-	-	-	-	-	-	-	-	-	-	-	-
Total	4.95	-	-	-	439.42	294.45	24,730	0.012	473.90	222.48	18,830	0.012

Table 54 (cont'd)

Month	MAJOR AREA											
	5A				5B				5C			
	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)
January	35.53	35.53	1,800	0.020	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-
March	52.63	52.63	2,090	0.025	119.30	119.30	9,180	0.013	-	-	-	-
April	34.57	34.57	2,160	0.016	127.09	127.09	6,660	0.019	-	-	-	-
May	71.69	71.69	4,235	0.017	46.54	46.54	3,240	0.014	-	-	-	-
June	134.10	134.04	6,720	0.020	172.93	172.93	9,360	0.018	21.92	19.78	1,200	0.016
July	12.10	12.10	900	0.013	51.50	51.50	2,100	0.025	-	-	-	-
August	32.93	32.93	1,500	0.022	212.12	77.13	4,740	0.016	-	-	-	-
September	60.20	60.20	4,200	0.014	238.62	238.62	14,280	0.017	10.75	10.75	660	0.016
October	-	-	-	-	1.88	-	-	-	-	-	-	-
November	14.35	14.35	1,380	0.010	50.54	50.54	4,140	0.012	17.86	17.86	2,160	0.008
December	-	-	-	-	-	-	-	-	-	-	-	-
Total	448.10	448.04	24,985	0.018	1,020.52	883.65	53,700	0.016	50.53	48.39	4,020	0.012

Table 54 (cont'd)

Month	Major Area											
	5D				5E				Total			
	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)	Total landings (t)	Monitored landings (t)	Monitored effort (traps)	Monitored CPUE (t/trap)
January	-	-	-	-	-	-	-	-	43.67	43.67	2,280	0.019
February	-	-	-	-	133.15	133.15	3,780	0.035	133.15	133.15	3,780	0.035
March	-	-	-	-	184.88	151.32	4,140	0.037	464.85	431.29	23,305	0.019
April	-	-	-	-	268.77	185.47	7,260	0.026	536.28	382.60	19,680	0.019
May	-	-	-	-	75.13	3.18	720	0.004	321.59	171.28	11,550	0.015
June	-	-	-	-	140.01	112.88	5,460	0.021	759.03	601.99	38,085	0.016
July	-	-	-	-	69.81	69.81	3,060	0.023	258.47	180.08	9,300	0.019
August	14.94	-	-	-	109.08	53.47	3,420	0.016	512.19	260.15	18,105	0.014
September	-	-	-	-	-	-	-	-	309.57	309.57	19,140	0.016
October	-	-	-	-	-	-	-	-	1.88	-	-	-
November	-	-	-	-	4.87	4.87	900	0.005	97.38	97.38	9,780	0.010
December	-	-	-	-	-	-	-	-	-	-	-	-
Total	14.94	-	-	-	985.70	714.15	28,740	0.025	3,438.06	2,611.16	155,005	0.017

Table 55. 1982 British Columbia trap landings (t) of groundfish—International Area 4B, Strait of Georgia.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Sablefish	-	-	-	-	-	4.95	-	-	-	-	-	-	4.95
Total	-	-	-	-	-	4.95	-	-	-	-	-	-	4.95

Table 56. 1982 British Columbia trap landings (t) of groundfish--International Area 3C, southwest coast of Vancouver Island.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	0.01	-	-	-	-	-	-	-	0.01
Sablefish	-	-	84.29	14.11	65.59	146.08	51.14	78.20	-	-	-	-	439.41
Total	-	-	84.29	14.11	65.60	146.08	51.14	78.20	-	-	-	-	439.42

Table 57. 1982 British Columbia trap landings (t) of groundfish--International Area 3D, northwest coast of Vancouver Island.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Sablefish	8.14	-	23.75	91.74	62.63	139.04	73.92	64.92	-	-	9.76	-	473.90
Total	8.14	-	23.75	91.74	62.63	139.04	73.92	64.92	-	-	9.76	-	473.90

Table 58. 1982 British Columbia trap landings (t) of groundfish--International Area 5A, south Queen Charlotte Sound.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Sablefish	35.53	-	52.63	34.57	71.69	134.10	12.10	32.93	60.20	-	14.35	-	448.10
Total	35.53	-	52.63	34.57	71.69	134.10	12.10	32.93	60.20	-	14.35	-	448.10

Table 59. 1982 British Columbia trap landings (t) of groundfish--International Area 5B, north Queen Charlotte Sound.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Sablefish	-	-	119.30	127.09	46.54	172.93	51.50	212.12	238.62	1.88	50.54	-	1,020.52
Total	-	-	119.30	127.09	46.54	172.93	51.50	212.12	238.62	1.88	50.54	-	1,020.52

Table 60. 1982 British Columbia trap landings (t) of groundfish--International Area 5C, south Hecate Strait.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Sablefish	-	-	-	-	-	21.92	-	-	10.75	-	17.86	-	50.53
Total	-	-	-	-	-	21.92	-	-	10.75	-	17.86	-	50.53

Table 61. 1982 British Columbia trap landings (t) of groundfish--International Area 5D, north Hecate Strait.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	-	-	-	-	-	-	-	-	-	-
Sablefish	-	-	-	-	-	-	-	14.94	-	-	-	-	14.94
Total	-	-	-	-	-	-	-	14.94	-	-	-	-	14.94

Table 62. 1982 British Columbia trap landings (t) of groundfish--International Area 5E, west coast Queen Charlotte Islands.

Species	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lingcod	-	-	-	0.21	-	-	-	-	-	-	-	-	0.21
Sablefish	-	133.15	184.88	268.56	75.13	140.01	69.81	109.08	-	-	4.87	-	985.49
Total	-	133.15	184.88	268.77	75.13	140.01	69.81	109.08	-	-	4.87	-	985.70

Table 63. British Columbia trap landings (t) by species by minor area in 1984.

Species	Minor Area								
	2Aw	2Bw	1E	2BE	8	11	25	26	27
Lingcod	-	0.21	-	-	-	-	-	-	-
Sablefish	527.38	458.11	14.94	50.53	1,020.52	448.10	186.43	98.25	189.22
Total	527.38	458.32	14.94	50.53	1,020.52	448.10	186.43	98.25	189.22

Species	Minor Area				
	21	23	24	1b	Total
Lingcod	-	0.01	-	-	0.22
Sablefish	0.38	237.12	201.91	4.95	3,437.84
Total	0.38	237.13	201.91	4.95	3,438.06

JOINT-VENTURE FISHERIES

Since 1978, Canadian trawlers have participated in joint-venture fisheries. Canadian catcher vessels delivered Pacific hake and incidental species to foreign processing vessels in cooperative fishing arrangements. These fisheries have taken place off the southwest coast of Vancouver Island (Area 3C). The joint-venture catches of groundfish for 1978-1982 are presented in Table 64. This is the first year for inclusion of such information in this report. These data are separated from the domestic landings because the joint-venture catches (converted from processed weight) are reported by the foreign processing vessels and cannot be verified by weight tallies.

Table 64. Joint-venture catches (t)[a] of groundfish from International Area 3C--Southwest coast of Vancouver Island, 1978-1982.

Nation and Species	1978[b]	1979[b]	1980	1981	1982
Poland					
Hake	1,814.0	3,102.0	4,559.9	4,779.0	10,222.4
Pollock	-	-	235.8	204.7	222.1
Pacific ocean perch	-	-	-	2.1	-
Other rockfish	-	-	-	30.6	24.0
Shad	-	-	-	-	13.7
USSR					
Hake	-	1,131.0	4,299.9	7,262.2	9,390.9
Pollock	-	-	584.3	298.5	148.5
Pacific ocean perch	-	-	-	0.8	-
Other rockfish	-	-	-	40.2	29.7
Greece					
Hake	-	-	3,354.6	4,927.3	-
Pollock	-	-	175.1	285.4	-
Other rockfish	-	-	-	38.1	-
Total					
Hake	1,814.0	4,233.0	12,214.4	16,968.5	19,613.3
Pollock	-	-	995.2	788.6	370.6
Pacific ocean perch	-	-	-	2.9	-
Other rockfish	-	-	-	108.9	53.7
Shad	-	-	-	-	13.7

[a]Catches (converted from processed weight) are reported by foreign processing vessels and cannot be verified by weight tallies.

[b]May include incidental catches of pollock and rockfish.

CATCH BY INPFC AREA

This report is also produced to satisfy requirements of committees of the International North Pacific Fisheries Commission (INPFC) (Canada, Japan, and United States). To complement the previous tables, groundfish landings in metric tons (t) are presented in Tables 65-67 for trawl and other gears according to INPFC areas. The relationship between these areas and the major areas used in the first portion of the report is as follows:

INPFC Area	Major Area	Latitude
Charlotte	5A, 5B, 5C, 5D, 5E[5]	50°30'N - 54°30'N
Vancouver	3B[6], 3C[6], 3D, 4B[7]	47°30'N - 50°30'N

[5]Northernmost 10 miles actually in Southeastern.
[6]Southernmost 10 miles actually in Columbia.
[7]Inside waters (Strait of Georgia).

Table 65. British Columbia landings (t) of groundfish taken by all types of gear in 1982 by INPFC area.

Species	Area		
	Vancouver	Charlotte	Total
English sole	109.79	449.36	559.15
Rock sole	108.58	636.41	744.99
Petrale sole	266.93	99.57	366.50
Dover sole	351.76	562.34	914.10
Rex sole	0.42	73.48	73.90
Starry flounder	24.99	142.57	167.56
Turbot	92.43	432.74	525.17
Other flatfish	207.16	12.50	219.66
Pacific cod	2,140.15	2,669.76	4,809.91
Lingcod	2,726.38	1,435.43	4,161.81
Sablefish	1,240.84	2,735.31	3,976.15
Pollock	109.63	814.58	924.21
Hake	2,825.36[a]	0.43	2,825.79[a]
Pacific ocean perch	514.02	5,469.31	5,983.33
Other rockfish	1,158.57	3,934.32	5,092.89
Misc. species	33.90	107.06	140.96
Dogfish	2,229.78	345.49	2,575.27[b]
Animal food	-	65.46	65.46
Reduction	54.08	395.78	449.86
Total	14,194.77	20,381.90	34,576.67

[a]Domestic fishery only. Does not include 1982 joint-venture hake catches of 19,613 t, see Table 64.

[b]Does not include an estimated 1,300 t of dogfish landed at United States ports for which no data are available.

Table 66. British Columbia trawl landings (t) of groundfish in 1982 by INPFC area.

Species	Area		
	Vancouver	Charlotte	Total
English sole	109.79	449.36	559.15
Rock sole	108.58	636.41	744.99
Petrale sole	266.93	99.57	366.50
Dover sole	351.76	562.34	914.10
Rex sole	0.42	73.48	73.90
Starry flounder	24.99	142.57	167.56
Turbot	92.43	432.74	525.17
Other flatfish	207.16	12.50	219.66
Pacific cod	2,133.94	2,660.24	4,794.18
Lingcod	1,637.96	1,240.58	2,878.54
Sablefish	158.77	89.03	247.80
Pollock	109.63	814.58	924.21
Hake	2,825.36[a]	0.43	2,825.79[a]
Pacific ocean perch	514.02	5,469.31	5,983.33
Other rockfish	790.87	3,853.68	4,644.55
Misc. species	33.10	106.13	139.23
Dogfish	1,387.44	331.22	1,718.66
Animal food	-	65.46	65.46
Reduction	54.08	395.78	449.86
Total	10,807.23	17,435.41	28,242.64
Effort (n)	16,202	18,433	34,635

[a]Domestic fishery only. Does not include 1982 joint-venture hake catches of 19,613 t, see Table 64.

Table 67. British Columbia landings (t) of groundfish caught by gear other than trawl in 1982 by INPFC area.

Species and gear	Area		Total
	Vancouver	Charlotte	
Handline and troll			
Lingcod	1,065.81	138.64	1,204.45
Pacific cod	4.91	5.85	10.76
Rockfish	312.36	19.97	332.33
Longline			
Dogfish	842.34	14.27	856.61
Lingcod	10.70	15.60	26.30
Pacific cod	0.99	2.65	3.64
Rockfish	41.13	10.78	51.91
Sablefish	161.89	110.23	272.12
Misc. species	0.71	0.36	1.07
Trap			
Lingcod	0.01	0.21	0.22
Sablefish	918.26	2,519.58	3,437.84
Shrimp trawl			
Pacific cod	0.05	-	0.05
Rockfish	0.14	-	0.14
Misc. species	0.03	-	0.03
Incidental to Halibut longline			
Lingcod	11.90	40.40	52.30
Pacific cod	0.26	1.02	1.28
Rockfish	14.07	49.89	63.96
Sablefish	1.92	16.47	18.39
Misc. species	0.06	0.57	0.63
Total	3,387.54	2,946.49	6,334.03

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POOR

QUALITY

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